Source Area Trackdown Report
Court Street and Luquer Street
Brooklyn, New York

Site Number: 224414

December 2025

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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Certification

I, Richard M. Watt, P.G. certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375-1.2(ak) and that this Source Area Trackdown Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER *Technical Guidance for Site Investigation and Remediation* (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Richard M. Watt, P.G.
(NY 000466)

Date: 12/12/2025

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List of Abbreviations and Acronyms

ADT	Aquifer Drilling and Testing, Inc.
BGS	below ground surface
CVOC	chlorinated volatile organic compound
DCE	1,2-dichloroethene
DER-10	Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
E & E	Ecology and Environment Engineering and Geology, P.C.
EPA	U.S. Environmental Protection Agency
IDW	investigation-derived waste
IRT	Innovative Recycling Technologies, Inc.
µg/L	micrograms per liter
µg/m³	micrograms per cubic meter
mg/kg	milligrams per kilogram
MGP	manufactured gas plant
MS/MSD	matrix spike/matrix spike duplicate
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	polychlorinated biphenyl
PCE	perchloroethylene (tetrachloroethene)
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PID	photoionization detector
QA	quality assurance
QC	quality control
QAPP	Quality Assurance Project Plan
SAP	Sampling and Analysis Plan
SCO	soil cleanup objective

List of Abbreviations and Acronyms (cont.)

Site	Court Street and Luquer Street Site
SVOC	semivolatile organic compound
SVI	soil vapor intrusion
TCE	trichloroethene
VOC	volatile organic compound

1 Introduction

1.1 Purpose

Pursuant to Work Assignment Number D009807-36, Ecology and Environment Engineering and Geology, P.C. (E & E) performed a source area trackdown investigation at the Court Street and Luquer Street Site (the Site; Site No. 224414) on behalf of the New York State Department of Environmental Conservation (NYSDEC). The primary objective of this investigation was to identify the source or sources of chlorinated volatile organic compound (CVOC) contamination detected during Gowanus Canal Area SVI site (Site No. 224133A) soil vapor intrusion sampling during the 2023-2024 heating season. This investigation was carried out in accordance with the Source Area Trackdown Sampling and Analysis Plan (SAP), dated October 7, 2024 (E & E 2024a). As part of this investigation, soil borings were advanced and groundwater monitoring wells were installed to evaluate the potential presence of CVOC contamination sources.

1.2 Site Description

The Site covers a two-block area in the Carroll Gardens neighborhood of Brooklyn, New York. It is bounded by Court Street (between 4th Place and Nelson Street) and Luquer Street (between Court and Smith Streets), as shown on Figure 1-1. The surrounding area consists primarily of residential and mixed-use commercial properties. The Site is located approximately 1,100 feet west of the Gowanus Canal, a 1.8-mile-long man-made navigational waterway that is listed as a U.S. Environmental Protection Agency (EPA) National Priorities List (Superfund) site.

Historical Sanborn fire insurance maps indicate that St. Mary Star of the Sea Rectory (467 Court Street) and St. Mary Star of the Sea Church (469 Court Street) have occupied the southeastern corner of the Court Street and Luquer Street intersection since 1886. The surrounding blocks have supported dry-cleaning operations since at least 1952, including facilities such as One Stop Cleaners (466 Court Street, active ca. 1997-2022), Happy Cleaners/Former Yes Cleaners (472 Court Street, active ca. 2008-current), Sofo Cleaners (497 Court Street, active ca. 2003–2020), Cadet Cleaners (465 Court Street, active ca. 1952-2008), and Former Ken's/Milties Cleaners, 483 Court Street, active ca. 1955-1985) as shown on Figure 1-2 (ERIS 2024). Dry-cleaning facilities have historically used solvents such as perchloroethylene (or tetrachloroethene [PCE]), a common groundwater contaminant associated with historic dry cleaners. PCE degrades to daughter products including trichloroethene (TCE), and these chlorinated solvents have been detected in recent monitoring efforts in the area.

According to U.S. Geological Survey topographic mapping, the Site is situated at an elevation of approximately 40 feet above mean sea level and slopes northward toward the East River, which is located about 4,500 feet to the northwest.

1.3 Geology

The Site lies within the Atlantic Coastal Plain physiographic province. Overburden in this area of Kings County is generally about 150 feet thick and may consist of the following five layers (NYSGS 1989):

- Fill generally consisting of loose, non-cohesive sand, silty sand, and gravel mixed with brick, concrete, coal fragments, wood, ash, metal fragments, and debris that can be up to 30 feet thick.
- Alluvial/marsh deposits generally consisting of sand, silt, and organic material generally 2 to 10 feet thick when encountered.
- Two types of glacial deposits: a predominantly sandy glacial outwash unit that is sporadically inter-bedded with glacial till. The glacial outwash generally consists of brown to gray, loose, non-cohesive, well-sorted, fine to coarse sands with varied amounts of gravel and trace silt. The isolated layers of glacial till are generally brown and a poorly sorted unit consisting of silt and fine to coarse sand. Glacial deposits in the area can range up to approximately 150 feet in thickness.
- Jameco gravel generally consisting of loose, non-cohesive, gray, widely graded medium to coarse sand and coarse gravel.

Bedrock in this area is typically the Fordham Gneiss, a metamorphosed, medium- to coarse-grained igneous rock unit of Precambrian age (Buxton 1999).

Up to four regional groundwater aquifers are present in this area of Kings County, with three within the Upper Glacial aquifer and one in the Jameco aquifer:

- The Upper Glacial aquifer is generally an unconfined aquifer, although deeper portions of the aquifer may exhibit semi-confined aquifer conditions due to the presence of silt and clay layers. The Upper Glacial aquifer has been subdivided into shallow, intermediate, and deep groundwater zones, with tides potentially affecting the shallow and intermediate zones near the canal. Groundwater within the upper portion of this aquifer likely flows toward the Gowanus Canal.
- The Jameco aquifer is a regionally semiconfined aquifer overlying the Raritan Formation and/or Precambrian Fordham Gneiss bedrock form.

1.4 Site History and Previous Investigations

The Gowanus Canal area has a long history of industrial activity dating back to the 1800s. From the 1860s to the 1920s, several manufactured gas plants (MGPs) operated along the canal corridor. These facilities converted coal and petroleum products into gas, generating large quantities of coal tar waste. This waste

contaminated the subsurface soil and groundwater with volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) including polynuclear aromatic hydrocarbons.

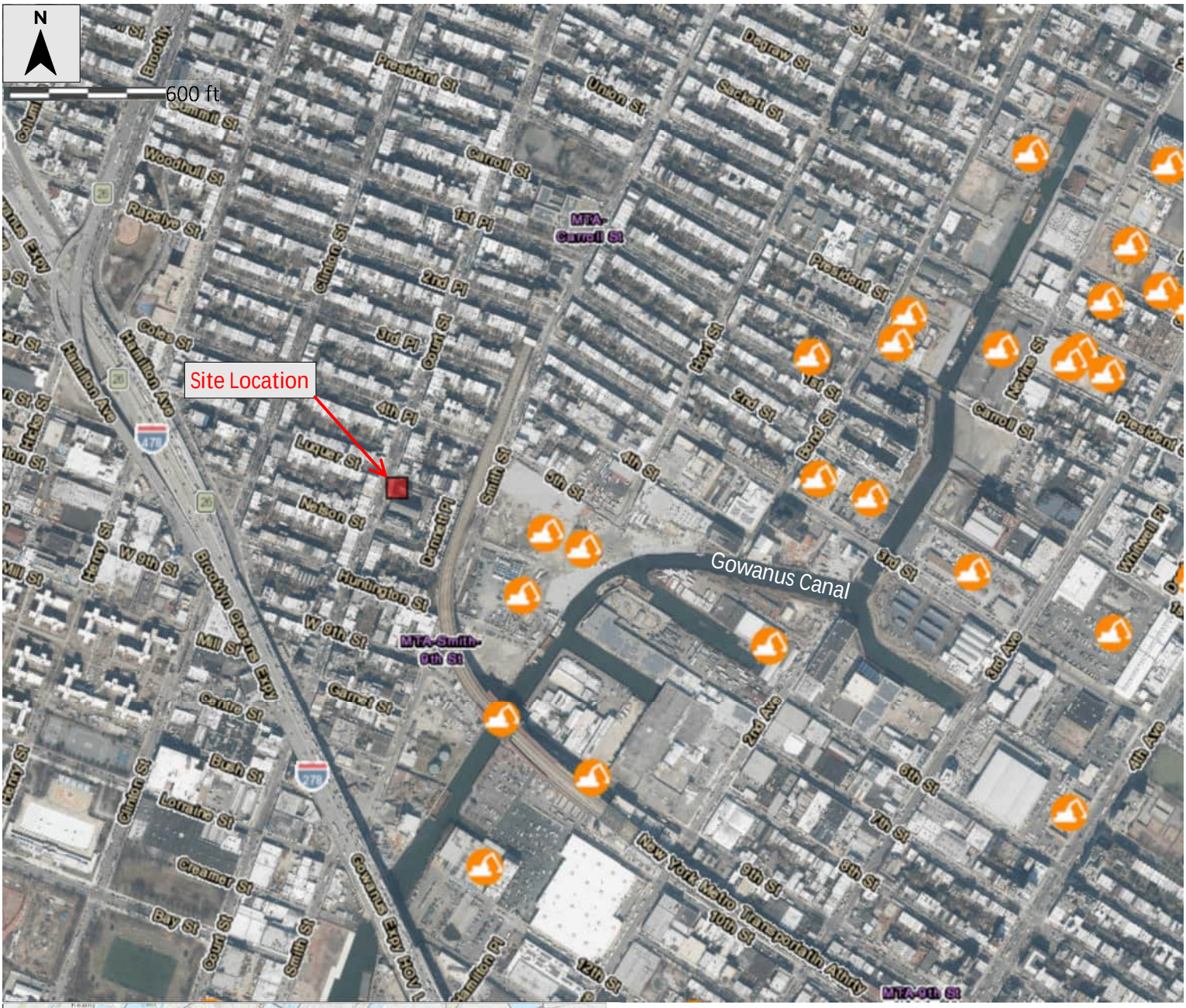
One of these former MGPs, known as the K-Citizens Site, is located approximately 500 feet east of the current Site. Multiple off-site groundwater monitoring wells have been installed east of the Site as a result of ongoing investigations into the migration of contamination from the K-Citizens Site. Key findings from previous investigations relevant to the current study are summarized below, and Figure 2-1 illustrates Site area monitoring wells.

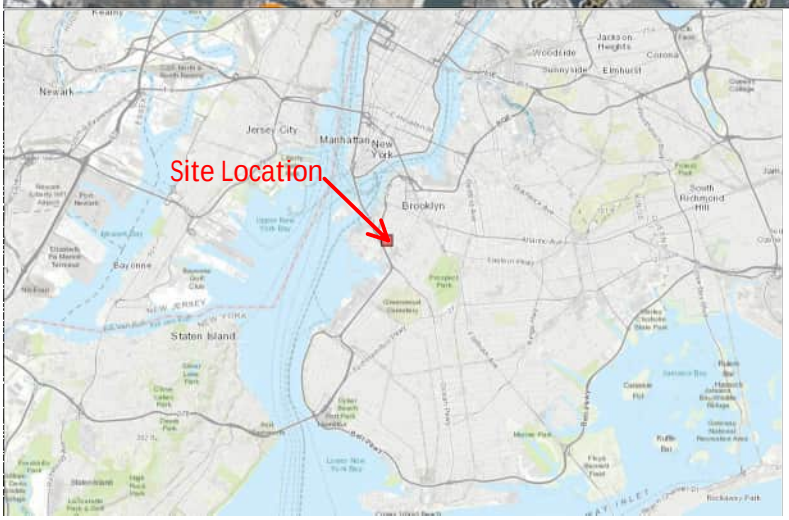
Between December 2023 and March 2024, E & E conducted a soil vapor intrusion (SVI) investigation in the Gowanus Canal area under NYSDEC's oversight. This investigation followed a NYSDEC-approved SAP (E & E 2023) and the New York State Department of Health's (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH 2006). During this investigation, elevated concentrations of CVOCs, particularly PCE and TCE, were detected in the subsurface. At the St. Mary Star of the Sea rectory building (467 Court Street), elevated PCE levels in sub-slab vapor samples and concentrations of PCE and TCE in indoor air samples above NYSDOH air guideline values (30 micrograms per cubic meter [µg/m³] for PCE and 2 µg/m³ for TCE) drove the need for mitigation. At the church building (469 Court Street), elevated PCE levels in sub-slab vapor indicated the need for mitigation.

The discovery of elevated chlorinated VOCs unrelated to historical MGP contamination during the 2023-2024 SVI investigation prompted a groundwater sampling event on Luquer Street in February 2024. This sampling focused on three existing monitoring well locations: CGMW-23 (screened at 13–23 feet below ground surface [BGS]), CGMW-63 (screened at 30–40 feet), and multiport well CGMW-17 (with seven screened zones ranging from 17–138 feet). Groundwater samples from these wells were analyzed for VOCs, SVOCs, PCBs, and metals (E & E 2024b). The analytical results from this investigation are provided in Section 3.2.1.

In response to the detection of CVOCs during the 2023-2024 SVI investigation, NYSDEC directed E & E to evaluate potential groundwater contamination in the existing off-site monitoring wells surrounding the Citizens MGP–Carroll Garden Site. In June 2024, an additional off-site groundwater sampling event was conducted, during which groundwater samples were collected from 18 existing monitoring wells via purging and sampling. The wells—comprising 17 standard monitoring wells and one multiport well (CGMW-18)—were sampled and analyzed for VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), per- and polyfluoroalkyl substances (PFAS), and metals (including mercury and cyanide) (E & E 2025). The sampling expanded upon previous analyses for these wells, which had only tested for benzene, ethylbenzene, toluene, and xylene.

The results indicated detections of 31 VOCs (16 exceeding NYSDEC Class GA standards or guidance values), 17 SVOCs (eight exceeding), 15 PFAS compounds (two exceeding), five pesticides, 15 metals (six exceeding), and cyanide. PCBs were not detected, and mercury levels remained below detection limits. The analytical results from this investigation are discussed in Section 3.2.1.





Imagery from DECinfo Locator
https://gisservices.dec.ny.gov/gis/dil/

Active Remediation Site

Figure 1-1
Site Location Map
Court Street and Luquer Street Source Area Trackdown
Brooklyn, Kings County, New York

Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation



Figure 1-2
Site Area Map with Historic Dry Cleaners
Court Street and Luquer Street Source Area Trackdown
Brooklyn, Kings County, New York

Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

2 Source Area Trackdown Activities

The objective of this investigation was to attempt to identify the source(s) of CVOC contamination detected around the Site during the 2023/2024 NYSDEC SVI investigation. This study focused on drilling soil borings and installing groundwater monitoring wells in the sidewalk areas near 467 and 469 Court Street to delineate contamination pathways and potential source areas.

All drilling and monitoring well installations were performed by Aquifer Drilling and Testing, Inc. (ADT), a subsidiary of Cascade Environmental based in Mineola, New York. Field activities were overseen by E & E, following the protocols outlined in the October 2024 SAP (E & E 2024a).

Field activities for the investigation included advancing 10 soil borings to depths of approximately 50 feet BGS, screening soils for visual evidence and photoionization detector (PID) readings of contamination, soil sample collection, installing 10 monitoring wells in nested shallow/intermediate pairs, well development, and groundwater sample collection. These activities were primarily conducted by ADT staff and a two-person E & E team between October 28 and November 20, 2024. The field activities consisted of the following:

- **Soil Boring and Well Installation (October 28–November 6, 2024):** Soil borings were advanced along Court and Luquer Streets using a Fraste SPT XL MAX Sonic Drill rig, with continuous soil core recovery for characterization and sampling. Ten monitoring wells were constructed with 2-inch PVC screens and sand/bentonite packs to isolate groundwater sampling zones.
- **Sidewalk Restoration (November 4–7, 2024):** After monitoring well installation, ADT restored the flagstone sidewalks with concrete to return them to pre-disturbance conditions in accordance with New York City Department of Transportation permit requirements.
- **Well Development (November 8–12, 2024):** Monitoring wells were purged using bladder pumps and bailers to remove residual sediments and establish hydraulic connectivity with the aquifer.
- **Groundwater Sampling (November 13–20, 2024):** Low-flow sampling was performed at nine monitoring wells; one monitoring well (CLMW-03S) was dry and not developed or sampled. Field groundwater quality

temperature, conductivity, and turbidity) were measured and stabilized before sample collection.

Investigation-derived waste (IDW) generated during monitoring well installation, development, and sampling was removed from the Site daily (see Section 2.4 below). All fieldwork was conducted by E & E in compliance with the SAP submitted to NYSDEC in October 2024 (E & E 2024a). The specific objectives of each activity are described in detail in subsequent subsections of this report. A photographic log documenting field activities is provided in Appendix A.

2.1 Field Activities

2.1.1 Health and Safety Monitoring

An air monitoring program was implemented during ground-intrusive activities to protect both workers and the surrounding community from potential airborne hazards, including VOCs and particulates. As part of the Community Air Monitoring Program, Specto Technology air quality monitoring units were deployed to measure real-time VOC concentrations and particulate matter at both upwind and downwind locations. These units recorded data every 15 seconds, allowing for immediate detection of any contaminant migration beyond the work zones. The daily Community Air Monitoring Program air monitoring data is provided in Appendix B.

Within the drilling area and downwind, the atmosphere was continuously monitored using a PID for VOCs and a four-gas meter to measure oxygen, carbon monoxide, hydrogen sulfide, and combustible gases. Real-time data logging confirmed that airborne VOC concentrations remained below action thresholds throughout drilling operations, indicating no significant airborne risks.

All work was conducted using Level D personal protective equipment.

2.1.2 Pre-Investigation Utility Survey and Vibration Monitoring

Before drilling activities, ADT conducted a preconstruction condition survey of the work area (sidewalk areas of Luquer Street between Clinton and Smith Streets, and Court Street between Nelson Street and Fourth Place). This noninvasive visual assessment documented existing conditions and subsurface utility locations for all sidewalk areas for the proposed drilling locations and other accessible exterior areas of the adjacent buildings.

2.1.3 Traffic Control

Traffic control measures were implemented throughout field activities to ensure the safety of both field personnel and the public, while minimizing disruption to local traffic. Temporary traffic control devices, including safety cones, plastic jersey barriers, and warning signs, were placed around work areas in accordance with the Health and Safety Plan (E & E 2024c). A buffer zone was established around active drilling rigs using plastic Jersey barriers and caution tape to guide vehicles and pedestrians around potential hazards safely.

Field staff wore high-visibility safety vests, and ADT employed a signal person as needed to direct traffic around drilling locations. All traffic control measures were coordinated with nearby businesses, which were notified in advance of any potential traffic disruptions. At the end of each workday, all drilling rigs and equipment were secured with caution tape and traffic barriers.

2.1.4 Soil Boring Installation and Soil Sampling

Soil boring installation activities were conducted at six locations across the project area. Using a Fraste SPT XL MAX Sonic Drill rig, ADT installed a total of 10 soil borings. At each location, the first borehole was advanced to a depth of approximately 50 feet BGS, and an intermediate zone well was installed within this borehole. At most locations, except for CLMW-06 and CLMW-01, a second borehole was drilled to install a shallow zone well positioned across the water table. Continuous soil cores were collected from the 50-foot boreholes (intermediate well location), and all soil samples were obtained from these cores. An E & E geologist was present on-site to log the soil cores as they were extracted and to collect soil samples.

E & E performed vibration monitoring throughout all drilling activities and continued daily until all drilling equipment was removed from the Site on November 7, 2024. Two vibration monitors were deployed at the structures closest to the drilling activities to monitor vibrations and prevent potential damage to adjacent buildings. The monitors were set to alarm below the threshold for cosmetic damage to plaster and drywall, the most fragile building materials. During drilling, vibration levels did not exceed threshold values, and no impacts to surrounding structures were observed.

As boreholes were advanced, soil was screened with a PID, and subsurface lithology was logged by an E & E geologist. PID readings and any odors were documented, with readings generally remaining low (<15 parts per million) across all boreholes. Boring logs were prepared for each borehole and are provided in Appendix C. E & E staff collected up to four soil samples from each soil boring for laboratory analysis, following the methodology outlined in the SAP (E & E 2024a).

No visual evidence of impacted soil was observed. Consequently, sample collection was biased toward zones of fill material, the vadose zone immediately above the water table, and soil from the bottom of the borehole. Samples were analyzed for the full NYSDEC Target Analyte/Target Compound List, including VOCs, SVOCs, PCBs, pesticides, and metals. Additional samples were collected for PFAS and 1,4-dioxane analysis to address emerging contaminants of concern. In total, 24 soil samples were collected, with VOC samples obtained using a TerraCore sampler in accordance with EPA Method 5035. Each sample was assigned an identifier (e.g., CLMW-05-Z10-11) indicating the well location and depth interval. Quality assurance (QA)/quality control (QC) samples, including a field duplicate, equipment blanks, trip blanks, and matrix spike/matrix spike duplicate

(MS/MSD) pairs, were also collected. All samples were shipped under chain-of-custody to Pace Analytical Laboratories for analysis.

2.1.5 Monitoring Well Installation

A total of 10 monitoring wells were installed by ADT in accordance with the SAP (E & E 2024a). The wells were placed in target areas where CVOCs were detected during the 2023/2024 SVI investigation, as well as locations adjacent to some former dry-cleaning operations identified in historical records. Four drilling locations (i.e., CLMW-02, CLMW-03, CLMW-04, and CLMW-05) consisted of paired shallow and intermediate-depth wells to assess different aquifer zones. Shallow wells were screened at approximately 20–30 feet BGS to intersect the water table, while intermediate wells were screened at approximately 40–50 feet BGS to target groundwater 15 to 25 feet below the water table. All wells were constructed with 2-inch diameter PVC casing and a 10-foot slotted screen. Well construction details are summarized in Table 2-1.

At the CLMW-01 location, only a shallow well was installed because preexisting intermediate and deep wells were already present nearby. At CLMW-06, only one monitoring well was installed due to an unexpectedly deep water table (approximately 40 feet BGS). Additionally, for CLMW-03S, the intention was to install the well screen to bisect the water table; however, it was inadvertently installed above the water table due to a deeper-than-expected water table at this location.

2.1.6 Sidewalk Restoration

Following the completion of drilling activities and monitoring well installation, sidewalk restoration was performed to repair areas disturbed during field activities between November 4 and November 7, 2024. The restoration process involved removing damaged concrete flagstones, installing flush-mounted steel casings around the new wells, and pouring new concrete flagstones to match the existing sidewalk conditions.

2.1.7 Well Development

The new monitoring wells were developed between November 8 and 12, 2024. Well development involved purging a minimum of three well volumes using either a submersible pump or dedicated bailers to remove residual fine sediments and restore the aquifer's natural hydraulic properties. To prevent cross-contamination, the well development pump was decontaminated with Alconox and distilled water, and new tubing or bailers were used for each monitoring well.

During well development, a Horiba U-52 multiparameter probe was used to monitor pH, temperature, conductivity, and turbidity. The volume of water purged and the final water quality measurements collected during well development are summarized in Table 2-2. All development water was collected in 55-gallon steel drums and disposed of daily (see Section 2.4).

2.1.8 Groundwater Sampling

Between November 13 and November 20, 2024, a bladder pump with dedicated high-density polyethylene tubing was used to sample nine of the 10 new

monitoring wells, following the protocols outlined in the SAP (E & E 2024a). Groundwater could not be collected from the newly installed monitoring well CLMW-03S due to the absence of groundwater in the well.

Field parameters, including temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential, were monitored at 10-minute intervals using a U-52 Horiba multiparameter probe. Purging continued until groundwater parameters stabilized for three consecutive readings.

Collected samples were preserved at 4 degrees Celsius in ice-filled coolers and transported to Pace Analytical Laboratory under a chain-of-custody protocol. Field QC sampling included one duplicate, one equipment field blank, one MS/MSD, and a total of four trip blanks (one with each sample shipment). A summary of groundwater sampling data is provided in Table 2-3, and purge and sample logs are included in Appendix D.

2.1.9 Static Groundwater Elevation Measurements

Two rounds of static groundwater elevation measurements were collected on December 19, 2024, and March 25, 2025. Groundwater levels in each well were recorded using a water interface probe capable of measuring depth to water within 0.01 feet from the top of each inside well casing. The two rounds of groundwater measurements are provided in Table 2-4, and groundwater elevation contours for the shallow and intermediate-screened wells are shown on Figures 22 through 25.

2.2 Sample Analysis

All soil and groundwater sample analyses were performed by NYSDEC's subcontractor Pace Analytical Laboratory, an Environmental Laboratory Approval Program-certified laboratory. Field QC samples are discussed in Section 2.6 and the data usability summary report (DUSR) is provided in Appendix E. Laboratory data were reported with a full data package (Category B) and EQuIS electronic data deliverable.

2.3 Site Survey

The 10 new monitoring wells were surveyed by Paul James Olszewski, PLS, PLLC on November 19, 2024. Horizontal coordinates were given in the New York State Plane (Long Island) coordinate system to an accuracy of ±0.10 feet relative to the North American Datum of 1983. Vertical elevations were given relative to the North American Vertical Datum of 1988 to an accuracy of ±0.01 feet. The survey data for the new monitoring wells are included in Table 2-1. The as-built survey figure is provided in Appendix F.

2.4 Investigation-Derived Waste Management

This investigation generated three types of IDW: (1) subsurface soils from borings and well installations; (2) water from decontamination, well development, and sonic drilling activities; and (3) solid materials, including dedicated sampling equipment (e.g., high-density polyethylene tubing and bladder pumps) and used personal protective equipment.

All soil and aqueous IDW were containerized in U.S. Department of Transportation-compliant 55-gallon steel drums. Over the course of the investigation, a total of 84 IDW drums were generated—60 drums of wastewater and 24 drums of soil and solid waste. Due to the lack of on-site waste storage availability, IDW was conservatively classified as hazardous under Resource Conservation and Recovery Act codes D039 (PCE), D040 (TCE), and F002 (chlorinated solvents) for daily transportation and disposal. All drummed waste was transported by Innovative Recycling Technologies (IRT) of Lindenhurst, New York, to Republic Environmental Systems LLC in Hatfield, Pennsylvania, for disposal.

Appendix G includes copies of the hazardous waste manifests for the 84 drums of IDW generated during this investigation. However, the manifests were completed incorrectly, resulting in a discrepancy between the actual waste quantities and the recorded information. Specifically, the manifests indicate that 80 drums of soil/solid waste and only four drums of wastewater were generated and transported off-site. Upon discovery of this paperwork discrepancy, the E & E project manager notified IRT.

2.5 Quality Assurance and Quality Control

Groundwater QA and QC samples, including field duplicates, trip blanks, and additional volume for MS/MSD analysis were collected in accordance with the specifications of E & E's *Master Quality Assurance Project Plan (QAPP) for NYSDEC Projects* (E & E 2020).

Trip blanks were collected to establish that external sources of contamination were not introduced to the samples or sample vials during transport to and from the field. Trip blank samples consisted of vials of organic-free water that were filled at the laboratory and were included with each laboratory shipment of groundwater samples for VOC analysis.

Field duplicate samples were collected in the same manner as field samples (i.e., they were placed into separate containers and labeled as separate samples) to maintain consistency in sample collection. When MS/MSD samples were collected, additional sample volume was provided to allow for evaluation of potential matrix interferences. Field duplicates and MS/MSD samples were collected at the rate of one per 20 field samples.

The QA/QC sample results are provided in the DUSRs (see Appendix E).

2.6 Data Validation

All laboratory deliverables were reviewed in accordance with E & E's Master QAPP prepared for NYSDEC (E & E 2020) and NYSDEC Technical Guidance for Site Investigation and Remediation (DER-10). The data were qualified following the guidelines in the EPA Region 2 Standard Operating Procedures. DUSRs were prepared for each laboratory report (based on sample delivery group) as specified in NYSDEC's *Guidance for the Development of Quality*

Assurance Plans and Data Usability Summary Reports (Appendix B of DER-10; NYSDEC 2010).

The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits;
- Laboratory blanks;
- MS/MSD samples;
- Laboratory control samples;
- Field duplicates;
- Sample result verification; and
- Method-specific QC samples (e.g., gas chromatography and mass spectroscopy).

DUSRs were prepared by E & E's data validation chemist (see Appendix E). Any deviations from acceptable QC specifications are discussed in the DUSRs. Qualifiers were added to the data, if appropriate, to indicate potential concerns with data usability, and these qualifiers were transferred to the data summary tables (see Section 3). Several organic and inorganic analytes were flagged "J" as estimated or "UJ" as non-detect with estimated reporting limits due to poor recoveries in MS/MSDs, initial and continuing calibration verification samples, and laboratory control samples. Other detections were flagged as non-detect due to presence in blanks. Some non-detect values (mostly SVOCs) were rejected (flagged "UR") due to very low recoveries in MS/MSDs and laboratory control samples (see Appendix E). None of these qualified results had impacts on data usability because they were mostly non-detect values of analytes that were not identified as contaminants of concern and were not present at threshold values (e.g., not at concentrations just below or above SCOs and groundwater standards)

Table 2-1 Well Construction Summary, Court Street & Luquer Street Source Area Trackdown, Brooklyn, New York

Well ID	Installation Date	Northing	Easting	Total Borehole Depth (ft bgs)	Well Diameter (inches)	Screen Length (feet)	Screen Interval (ft bgs)		Ground Elevation (ft NAVD88)	Top of Inner Casing Elevation (ft NAVD88)
							Top	Bottom		
CLMW-01S	11/6/2024	185914.978	984810.333	40	2.0	10	28	38	34.78	34.44
CLMW-02S	11/5/2024	185943.266	984724.926	38	2.0	10	28	38	37.09	36.71
CLMW-02I	11/1/2024	185942.715	984727.288	55	2.0	10	43	53	37.16	36.82
CLMW-03S	10/30/2024	185994.791	984720.170	35	2.0	10	23	33	38.70	38.29
CLMW-03I	10/30/2024	185995.639	984718.626	50	2.0	10	39	48	38.61	38.26
CLMW-04S	11/5/2024	185868.516	984672.216	40	2.0	10	28	38	35.54	35.22
CLMW-04I	11/5/2024	185872.230	984673.560	53	2.0	10	43	53	35.59	35.36
CLMW-05S	10/31/2024	186005.471	984650.634	40	2.0	10	28	38	38.01	37.71
CLMW-05I	10/31/2024	186006.438	984648.067	55	2.0	10	42	52	38.16	37.89
CLMW-06	10/29/2024	186199.092	984738.932	50	2.0	10	37	47	43.10	42.72

Key:

ft bgs = feet below ground surface

ft NAVD88 = feet North American Vertical Datum 1988

Note:

Coordinates in New York State Plane Long Island FIPS 3104 (US feet)

Table 2-2 Monitoring Well Development Summary - Court Street & Luquer Street Source Area Trackdown, Brooklyn, New York

Well ID	Development Date	Purged Volume (gallons)	Final pH	Final Conductivity (mS/cm)	Final Temperature (˚C)	Final Turbidity (NTUs)
CLMW-01	11/11/2024	45	8.80	0.538	17.9	1000
CLMW-02I	11/8/2024	55	7.55	0.867	16.7	155
CLMW-02S	11/8/2024	7	9.65	0.315	17.5	1000
CLMW-03I	11/8/2024	55	7.05	2.310	16.8	1000
CLMW-04S	11/11/2024	30	6.88	9.440	17.0	116
CLMW-04I	11/11/2024	50	7.44	2.450	16.7	114
CLMW-05I	11/11/2024	50	7.99	0.489	17.0	72
CLMW-05S	11/12/2024	15	7.26	1.820	14.9	1000
CLMW-06	11/12/2024	55	7.48	1.550	16.9	9.0

Key:

˚C = degrees celsius

mS/cm = milliSiemens per centimeter

NTUs = Nephelometric turbidity units

Table 2-3 Groundwater Sample Collection Summary, Court Street & Luquer Street Source Area Trackdown, Brooklyn, New York

Well ID	Sample Date	Purge Volume (gallons)	pH	Temperature (°C)	ORP (mV)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTUs)
CLMW-01S	11/13/2024	15.9	8.31	17.4	9.0	1.56	3.96	0.0
CLMW-02S	11/19/2024	7.1	9.07	16.5	-107	0.79	1.50	0.0
CLMW-02I	11/18/2024	22.5	7.45	16.7	102	1.17	1.35	0.0
CLMW-03I	11/19/2024	10.6	6.64	17.1	224	2.51	7.51	7.2
CLMW-04S	11/14/2024	11.9	6.68	16.1	100	10.8	9.95	0.0
CLMW-04I	11/14/2024	13.2	7.08	15.9	127	3.41	7.71	0.0
CLMW-05S	11/15/2024	7.4	7.05	16.9	122	2.40	2.60	0.0
CLMW-05I	11/15/2024	14.5	7.80	16.5	82	1.27	0.68	0.0
CLMW-06	11/20/2024	21.1	7.07	16.7	220	1.64	4.26	0.0

Key:

°C = degrees Celsius

DO = dissolved oxygen

L = Liters

mg/L = milligram per liter

mV = millivolts

NTU = Nephelometric turbidity

ORP = oxidation-reduction potential

µS/cm = MicroSiemens per centimeter

Table 2-4 Groundwater Elevations, Court Street & Luquer Street Source Area Trackdown, Brooklyn, New York

Well ID	Total Well Depth (ft btoc)	TOC Elevation (ft amsl)	12/19/2024		3/25/2025	
			Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
Shallow Wells						
CLMW-01S	33.80	34.44	31.62	2.82	31.85	2.59
CLMW-02S	35.90	36.71	34.08	2.63	34.17	2.54
CLMW-03S	33.00	38.29	Dry	Dry	Dry	Dry
CLMW-04S	37.90	35.22	32.71	2.51	32.82	2.4
CLMW-05S	37.83	37.71	35.12	2.59	35.22	2.49
CLMW-06	47.80	42.72	40.10	2.62	40.15	2.57
Intermediate Wells						
CGMW-25R	45.42	38.62	35.57	3.05	35.57	3.05
CLMW-02I	51.80	36.82	34.13	2.69	34.21	2.61
CLMW-03I	45.93	38.26	35.50	2.76	35.57	2.69
CLMW-04I	52.93	35.36	32.90	2.46	32.95	2.41
CLMW-05I	51.05	37.89	35.12	2.77	35.19	2.7
CGMW-63	39.98	30.75	27.44	3.31	27.83	2.92
CGMW-64I	89.59	34.75	31.62	3.13	31.91	2.84

Key:
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
GW = groundwater
TOC = top of casing



Prepared by:

ecology and environment engineering and geology, p.c.

Prepared for:

NEW YORK STATE Department of Environmental Conservation

Figure 2-1

Luquer Street & Citizens MGP Off-Site Monitoring Well Locations

Court and Luquer Source Area Trackdown

Brooklyn, New York



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 2-2
December 2024 Shallow Well Groundwater Contour Map
Court and Luquer Source Area Trackdown
Brooklyn, New York



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 2-3
March 2025 Shallow Well Groundwater Contour Map
Court and Luquer Source Area Trackdown
Brooklyn, New York



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 2-4
December 2024 Intermediate Well Groundwater Contour Map
Court and Luquer Source Area Trackdown
Brooklyn, New York



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 2-5
March 2025 Intermediate Well Groundwater Contour Map
Court and Luquer Source Area Trackdown
Brooklyn, New York

3 Analytical Results

This section presents the analytical results. Positive laboratory analytical results are summarized in Tables 3-1 (soil) and 3-4 (groundwater). Complete laboratory analytical results are presented in Appendix H.

The analytical results were compared to existing New York State regulatory standards, guidance values, and criteria to identify samples with analyte concentrations that may represent a threat to human health and/or the environment. Groundwater analytical results were compared to Class GA water quality standards and guidance values in NYSDEC's Technical and Operational Guidance Series 1.1.1 *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (NYSDEC 1998). The groundwater standards applied are promulgated standards that all ambient waters of New York State must comply with. Soil analytical results were compared to the NYSDEC Unrestricted Soil Cleanup Objectives (SCOs) (6 NYCRR 375-6.8).

3.1 Soil Sampling Results

A total of 24 soil samples (including field duplicates) were collected from soil borings and were analyzed for VOCs, SVOCs, pesticides/herbicides, PCBs, metals, and PFAS. Soil analytical results were compared to Part 375 Unrestricted Use SCOs. Table 3-1 summarizes soil sample detections, and Figure 3-1 summarizes the soil sample results for PCE, TCE, and 1,2-dichloroethene (DCE).

Seven VOCs (benzene, ethylbenzene, 2-butanone, naphthalene, o-xylene, PCE, and toluene) were detected in 13 of the 24 soil samples. None of the detected concentrations of these analytes exceeded unrestricted SCOs. The only chlorinated VOC detected in soil samples was PCE which ranged from non-detect to 0.0061 milligrams per kilogram (mg/kg). TCE and DCE were included in the analysis but were not detected in any of the soil samples.

No SVOCs, pesticides, herbicides, or PCBs were detected in any of the soil samples.

Seventeen metals were detected in soil samples. Nickel exceeded the Unrestricted SCO of 30 mg/kg in one sample (a concentration of 34 mg/kg in CLMW-05-Z11-12) collected at a depth of 11 to 12 feet. This concentration was below the Residential SCO of 140 mg/kg.

All the soil samples were analyzed for PFAS, with three PFAS compounds detected in four of the 24 soil samples. Neither perfluorooctanoic acid (PFOA) nor

perfluorooctanesulfonic acid (PFOS) were detected above proposed unrestricted SCOs.

3.2 Groundwater Sampling Results

3.2.1 Luquer Street and Citizens Manufactured Gas Plant Off-Site Groundwater Sampling Volatile Organic Compounds Results

During the February 2024 Luquer Street investigation, groundwater samples were collected from eight monitoring wells and were analyzed for VOCs, SVOCs, and metals. Figure 2-1 provides well locations. Groundwater analytical results were compared to Class GA standards (NYSDEC 1998).

A total of 15 VOCs were detected in nine groundwater samples (including one duplicate), with seven compounds (i.e., benzene, ethylbenzene, isopropylbenzene, m,p-xylene, o-xylene, PCE, and toluene) exceeding Class GA standards or guidance values. PCE (30.8 micrograms per liter [µg/L]), TCE (1.6 µg/L), and DCE (2.4 µg/L) were detected exclusively in monitoring well CGMW-63. A summary of groundwater VOC detections for the February 2024 sampling is provided in Table 3-2.

In the June 2024 Citizens Off-Site investigation, 25 groundwater samples were collected and analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Figure 2-1 shows the well locations. Thirty-one VOCs were detected in the 25 groundwater samples (including one duplicate), and 15 compounds exceeded Class GA standards or guidance values: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, cis-1,2-dichloroethylene, ethylbenzene, isopropylbenzene, m,p-xylene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, styrene, toluene, and vinyl chloride.

PCE was detected in three monitoring wells at a maximum concentration of 1.03 µg/L: CGMW-25R (0.32 µg/L), CGMW-64I (0.51 µg/L), and CGMW-65S (1.03 µg/L). TCE was detected in four monitoring wells at a maximum concentration of 4.53 µg/L: CGMW-62D (4.53 µg/L), CGMW-62I (1.22 µg/L), CGMW-64I (0.54 µg/L), and CGMW-65S (0.33 µg/L). DCE was detected in four monitoring wells at a maximum concentration of 85.7 µg/L: CGMW18-CH3 (85.7 µg/L), CGMW-62D (49.2 µg/L), CGMW-62I (67 µg/L), and CGMW-65S (0.93 µg/L).

Table 3-3 summarizes the groundwater detections. Most of these wells are located east of the Court Street and Luquer Street investigation area. Figures 3-2 and 3-3 present PCE, TCE, and DCE concentrations for a subset of these wells and the newly installed monitoring wells in the investigation area. These figures show concentrations from shallow- and intermediate-screened wells, respectively.

3.2.2 Court Street and Luquer Street Groundwater Sampling Results

During the November 2024 source area trackdown investigation, groundwater samples (plus a field duplicate) were collected from nine monitoring wells. CLMW-03S was dry at the time of sampling. All samples were analyzed for VOCs, SVOCs, pesticides, herbicides, PCBs, metals, and PFAS compounds.

Table 3-4 summarizes the groundwater sample detections, and Figures 3-2 and 3-3 show PCE/TCE/DCE concentrations detected in groundwater samples from the shallow and intermediate-screened wells, respectively.

Seven VOCs (i.e., bromodichloromethane, chloroform, cis-1,2-DCE, methylene chloride, tert-butyl methyl ether, PCE, and TCE) were detected in at least one groundwater sample. Two chlorinated VOCs (PCE and chloroform) exceeded applicable Class GA standards. PCE concentrations ranged from 5 µg/L (CLMW-04S) to 170 µg/L (CLMW-01S), while chloroform concentrations ranged from 2.0 µg/L (CLMW-02I) to 26.0 µg/L (CLMW-02S).

One SVOC, di-n-butyl phthalate, was detected at a concentration of 1.1 µg/L in monitoring well CLMW-02S, which is below the Class GA standard. No other SVOCs were detected.

Fifteen metals were detected in at least one groundwater sample, with four metals (i.e., antimony, manganese, sodium, and magnesium) exceeding Class GA standards or guidance values. The highest number of exceedances (three) occurred in wells CLMW-06 and CLMW-04I, followed by CLMW-04S, CLMW-05I, and CLMW-05S, each with two exceedances.

Ten PFAS compounds were detected in at least one groundwater sample, with two compounds exceeding guidance values. PFOA exceeded the 6.7 nanograms per liter (ng/L) screening level in nine samples, and PFOS exceeded the 2.7 ng/L screening level in six samples.

No pesticides, herbicides, or PCBs were detected in any groundwater samples.

Table 3-1 Summary of Positive Analytical Results for Soil Samples
Court Street and Luquer Street, Brooklyn, NY

Analyte	Screening Criteria[1]	Location ID:	CLMW-01	CLMW-01	CLMW-02	CLMW-02	CLMW-02	CLMW-02	CLMW-03	CLMW-03	CLMW-03	CLMW-03	CLMW-04	CLMW-04
		Sample Name:	CLMW-01-Z12-13	CLMW-01-Z37-38	CLMW-02-Z17-18	CLMW-02-Z28-29	CLMW-02-Z34-35	CLMW-02-Z45-46	CLMW-03-Z12-13	CLMW-03-Z21-22	CLMW-03-Z35-36	CLMW-03-Z42-43	CLMW-04-Z14-15	CLMW-04-Z22-23
		Depth:	12 - 13 ft	37 - 38 ft	17 - 18 ft	28 - 29 ft	34 - 35 ft	45 - 46 ft	12 - 13 ft	21 - 22 ft	35 - 36 ft	42 - 43 ft	14 - 15 ft	22 - 23 ft
		Date:	11/06/24	11/06/24	11/01/24	11/01/24	11/01/24	11/01/24	10/30/24	10/30/24	10/30/24	10/30/24	11/05/24	11/05/24
Volatile Organic Compounds by Method SW8260D (mg/kg)														
Benzene	0.06		0.00054 U	0.0005 U	0.00051 U	**0.0045 J**	0.00053 U	0.00055 U	0.00052 U	0.00052 U	0.00056 U	0.00061 U	0.00054 U	0.0006 U
Ethylbenzene	1		0.00049 U	0.00046 U	0.00047 U	**0.00083 J**	0.00048 U	0.00051 U	0.00048 U	0.00048 U	0.00052 U	0.00056 U	0.0005 U	0.00055 U
Methyl Ethyl Ketone (2-Butanone)	0.12		0.0072 U	0.0068 U	0.0069 U	0.007 U	0.0071 U	0.0075 U	0.007 U	0.007 U	0.0076 U	0.0082 U	0.0073 U	0.0081 U
Naphthalene	12		0.00085 UJ	0.0008 UJ	0.00081 U	**0.0010 J**	0.00083 U	0.00087 U	0.00082 U	0.00082 U	0.00089 U	0.00097 U	0.00086 UJ	0.00095 UJ
o-Xylene (1,2-Dimethylbenzene)	0.26		0.00058 U	0.00054 U	0.00055 U	**0.00078 J**	0.00057 U	0.0006 U	0.00056 U	0.00056 U	0.00061 U	0.00066 U	0.00059 U	0.00065 U
Tetrachloroethene (PCE)	1.3		**0.0052**	**0.0060**	0.00071 U	0.00072 U	**0.0026 J**	**0.011 J**	0.00072 U	0.00073 U	0.00078 U	**0.0021**	0.00076 U	0.00084 U
Toluene	0.7		**0.00055 J**	0.00048 U	0.00048 U	**0.0026 J**	0.0005 U	0.00052 U	0.00049 U	0.00049 U	0.00053 U	0.00058 U	0.00051 U	0.00057 U
Semivolatile Organic Compounds by Method SW8270E (mg/kg)														
All results were non-detect.														
1,4-Dioxane by Method SW8270DSIM (mg/kg)														
All results were non-detect.														
Organochlorine Pesticides by Method SW8081B (mg/kg)														
All results were non-detect.														
Chlorinated Herbicides by Method SW8151A (µg/kg)														
All results were non-detect.														
PCBs by Method SW8082A (mg/kg)														
All results were non-detect.														
Per- and Polyfluoroalkyl Substances by Method E1633 (µg/kg)														
Perfluorobutanesulfonic acid (PFBS)	N/A		0.063 U	0.062 U	0.064 U	**0.12 J**	0.062 U	0.063 U	0.062 U	0.064 U	0.063 U	0.063 U	0.063 U	0.063 U
Perfluorooctanesulfonic acid (PFOS)	0.88		0.06 U	0.059 U	**0.063 J**	0.059 U	0.059 U	0.06 U	0.059 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Perfluorooctanoic acid (PFOA)	0.66		0.068 U	0.068 U	0.069 U	0.067 U	0.067 U	0.069 U	0.067 U	0.069 U	0.069 U	0.068 U	**0.077 J**	0.068 U
Metals by Method SW6010D (mg/kg)														
Aluminum	N/A		**5900**	**5600**	**5500**	**20000**	**5400**	**2700**	**6300**	**5600**	**5200**	**3300**	**6500**	**3300**
Arsenic	13		**2.4 J**	**2.6 J**	**4.1**	**6.6**	**5.1**	**2.4 J**	**4.0**	**3.7 J**	**4.0**	**2.4 J**	1.9 U	2 U
Barium	350		**41**	**45 J**	**38**	**130**	**57**	**28**	**42**	**40**	**46**	**24**	**46 J**	**43**
Beryllium	7.2		**0.36**	**0.36**	**0.38**	**0.63**	**0.34**	**0.19**	**0.48**	**0.40**	**0.36**	**0.23**	**0.41**	**0.24**
Calcium	N/A		**1600**	**9100**	**1300**	**16000**	**4600**	**5200**	**1400**	**1200**	**1700**	**890**	**1700**	**2400**
Chromium, Total	N/A		**13**	**14 J**	**15**	**23**	**11**	**5.5**	**16**	**13**	**12**	**7.5**	**14**	**8.1**
Cobalt	N/A		**5.4**	**4.2**	**5.9**	**4.0**	**4.5**	**3.2**	**5.5**	**4.4**	**4.7**	**3.4**	**5.7**	**3.3**
Copper	50		**13**	**13**	**14**	**26**	**15**	**8.6**	**13**	**13**	**19**	**9.7**	**19**	**13**
Iron	N/A		**12000**	**11000**	**11000**	**11000**	**10000**	**6700**	**11000**	**9900**	**11000**	**7800**	**12000**	**7700**
Lead	63		**4.7**	**4.9**	**6.9**	**9.3**	**5.7**	**3.2**	**7.2**	**6.5**	**5.1**	**4.0**	**5.5**	**3.4**
Magnesium	N/A		**2800**	**3200**	**2100**	**5200**	**2900**	**2200**	**3100**	**2500**	**2400**	**2000**	**3500**	**2100**
Manganese	1600		**270**	**260**	**230 J+**	**270 J+**	**230 J+**	**200 J+**	**320 J+**	**290 J+**	**360 J+**	**230 J+**	**270**	**250**
Nickel	30		**20**	**9.2**	**19**	**12**	**8.9**	**7.6**	**18**	**15**	**20**	**9.0**	**16 J**	**8.5**
Potassium	N/A		**1500**	**1200**	**1000**	**4300**	**1200**	**500**	**1500**	**1300**	**1100**	**470**	**1400**	**1000**
Silver	2		0.21 U	--	0.23 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.22 U	0.24 U	0.21 U	0.21 U
Sodium	N/A		**380**	**330**	**120 J**	**4100**	**330**	**90 J**	**590**	**440**	**320**	**220**	**760**	**140 J**
Vanadium	N/A		**17**	**18**	**17**	**23**	**21**	**9.3**	**18**	**16**	**20**	**11**	**18**	**16**
Zinc	109		**24**	**21**	**23**	**31**	**20**	**15**	**28**	**25**	**22**	**18**	**30**	**17**
Mercury by Method SW7471B (mg/kg)														
All results were non-detect.														
Cyanide by Method SW9012B (mg/kg)														
Cyanide	27		0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.41 U	0.39 U	0.42 U	0.44 U	0.4 U	0.39 U
Percent Solids by Method A2540G (%)														
Solids, Percent	N/A		**86.9**	**90.8**	**88.9**	**91.4**	**90.9**	**88.9**	**87.7**	**84.3**	**88.6**	**81.5**	**86.7**	**96.1**

Key at end of table.

Table 3-1 Summary of Positive Analytical Results for Soil Samples
Court Street and Luquer Street, Brooklyn, NY

Analyte	Screening Criteria[1]	Location ID:	CLMW-04	CLMW-04	CLMW-04	CLMW-05	CLMW-05	CLMW-05	CLMW-05	CLMW-05	CLMW-06	CLMW-06	CLMW-06	CLMW-06
		Sample Name:	CLMW-04-Z33-34	CLMW-04-Z45-46	CLMW-04-Z45-46Q	CLMW-05-Z11-12	CLMW-05-Z24-25	CLMW-05-Z34-35	CLMW-05-Z34-35Q	CLMW-05-Z44-45	CLMW-06-Z25-26	CLMW-06-Z36-37	CLMW-06-Z42-43	CLMW-06-Z48-49
		Depth:	33 - 34 ft	45 - 46 ft	45 - 46 ft	11 - 12 ft	24 - 25 ft	34 - 35 ft	34 - 35 ft	44 - 45 ft	25 - 26 ft	36 - 37 ft	42 - 43 ft	48 - 49 ft
		Date:	11/05/24	11/05/24	11/05/24	10/31/24	10/31/24	10/31/24	10/31/24	10/31/24	10/29/24	10/29/24	10/29/24	10/29/24
Volatile Organic Compounds by Method SW8260D (mg/kg)														
Benzene	0.06		0.0005 U	0.0006 U	0.00061 U	0.00058 U	0.00053 U	0.00051 U	0.00051 U	0.00062 U	0.00057 U	0.0006 U	0.00063 U	0.0006 U
Ethylbenzene	1		0.00046 U	0.00055 U	0.00056 U	0.00053 U	0.00049 U	0.00047 U	0.00047 U	0.00057 U	0.00052 U	0.00055 U	0.00058 U	0.00055 U
Methyl Ethyl Ketone (2-Butanone)	0.12		0.0067 U	0.0081 U	0.0083 U	0.0078 U	0.0072 U	0.0069 U	0.0068 U	0.0084 U	**0.012 J**	0.0081 U	0.0085 U	0.0081 U
Naphthalene	12		0.00078 UJ	0.00094 UJ	0.00097 UJ	0.00092 U	0.00084 U	0.00081 U	0.0008 U	0.00098 U	0.00089 U	0.00095 U	0.001 U	0.00095 U
o-Xylene (1,2-Dimethylbenzene)	0.26		0.00054 U	0.00064 U	0.00066 U	0.00063 U	0.00058 U	0.00055 U	0.00055 U	0.00067 U	0.00061 U	0.00065 U	0.00068 U	0.00065 U
Tetrachloroethene (PCE)	1.3		0.00069 U	**0.0050**	**0.0061**	0.00081 U	0.00074 U	**0.00077 J**	0.0007 U	**0.0042 J**	0.00079 U	0.00083 U	**0.0023**	**0.0034**
Toluene	0.7		0.00047 U	0.00056 U	0.00058 U	0.00055 U	0.00051 U	0.00049 U	0.00048 U	0.00059 U	0.00054 U	0.00057 U	0.0006 U	0.00057 U
Semivolatile Organic Compounds by Method SW8270E (mg/kg)														
All results were non-detect.														
1,4-Dioxane by Method SW8270DSIM (mg/kg)														
All results were non-detect.														
Organochlorine Pesticides by Method SW8081B (mg/kg)														
All results were non-detect.														
Chlorinated Herbicides by Method SW8151A (µg/kg)														
All results were non-detect.														
PCBs by Method SW8082A (mg/kg)														
All results were non-detect.														
Per- and Polyfluoroalkyl Substances by Method E1633 (µg/kg)														
Perfluorobutanesulfonic acid (PFBS)	N/A		0.063 U	0.063 UJ	0.063 U	0.062 U	0.062 U	0.063 U	0.063 U	0.062 U	0.062 U	0.063 U	0.064 U	0.062 U
Perfluorooctanesulfonic acid (PFOS)	0.88		0.06 U	0.06 UJ	0.06 U	**0.13 J**	0.059 U	0.06 U	0.06 U	0.059 U	0.059 U	**0.12 J**	0.06 U	0.059 U
Perfluorooctanoic acid (PFOA)	0.66		0.068 U	0.069 U	0.068 U	**0.40**	0.067 U	0.068 U	0.069 U	0.067 U	**0.23**	0.069 U	0.069 U	0.067 U
Metals by Method SW6010D (mg/kg)														
Aluminum	N/A		**5100**	**2600**	**2500**	**4800**	**5600**	**5500**	**4500**	**2800**	**2700**	**3000**	**2600**	**2500**
Arsenic	13		2.6 U	1 U	1.2 U	**4.0**	**4.1**	**3.7**	**3.4 J**	**2.5 J**	**2.7 J**	**2.3 J**	**2.0 J**	**1.8 J**
Barium	350		**62**	**26**	**26**	**30**	**40**	**38**	**31**	**29 J**	**25**	**26**	**21**	**24**
Beryllium	7.2		**0.45**	**0.18**	**0.19**	**0.32**	**0.37**	**0.39**	**0.32**	**0.19**	**0.20**	**0.20**	**0.19**	**0.18 J**
Calcium	N/A		**5500**	**940**	**910**	**1600**	**1400**	**1600**	**1200**	**6200**	**6700**	**5100**	**4600**	**730**
Chromium, Total	N/A		**10**	**5.2**	**5.4**	**13**	**16**	**13**	**9.8**	**5.3**	**6.4**	**5.3**	**4.8**	**5.8**
Cobalt	N/A		**4.7**	**2.7**	**2.5**	**5.6**	**4.9**	**4.9**	**4.0**	**2.8**	**2.7**	**2.7**	**2.5**	**2.5**
Copper	50		**16**	**16**	**14**	**18**	**15**	**15**	**14**	**8.3**	**8.7**	**7.4**	**7.8**	**7.3**
Iron	N/A		**10000**	**6500**	**6200**	**9700**	**12000**	**11000**	**9200**	**6600**	**6800**	**6100**	**5800**	**5400**
Lead	63		**5.1**	**2.4**	**2.7**	**5.4**	**5.9**	**5.7**	**5.1**	**3.3**	**3.5**	**3.6**	**3.3**	**3.2**
Magnesium	N/A		**3000**	**1500**	**1400**	**3200**	**2700**	**3000**	**2500**	**2500**	**3100**	**2100**	**2200**	**1400**
Manganese	1600		**210**	**160**	**170**	**240 J+**	**290 J+**	**280 J+**	**320 J+**	**190 J+**	**220 J+**	**190 J+**	**190 J+**	**200 J+**
Nickel	30		**12**	**5.4**	**5.5**	**34**	**13**	**10**	**8.6**	**7.6**	**9.5**	**6.8**	**5.9**	**5.7**
Potassium	N/A		**1000**	**420**	**450**	**1200**	**1200**	**1100**	**850**	**500 J**	**450**	**590**	**450**	**480**
Silver	2		0.19 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.23 U	0.2 U	0.2 U	0.23 U	0.23 U
Sodium	N/A		**340**	**120 J**	**140 J**	**530**	**660**	**620**	**580**	**110 J**	**97 J**	**110 J**	**120 J**	**130 J**
Vanadium	N/A		**17**	**15**	**14**	**14**	**15**	**19**	**16**	**8.4**	**11**	**8.9**	**6.8**	**6.2**
Zinc	109		**22**	**14**	**14**	**22**	**23**	**22**	**19**	**15**	**16**	**15**	**14**	**13**
Mercury by Method SW7471B (mg/kg)														
All results were non-detect.														
Cyanide by Method SW9012B (mg/kg)														
Cyanide	27		**0.48 J**	0.42 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.38 U	0.37 U	0.41 U	0.41 U
Percent Solids by Method A2540G (%)														
Solids, Percent	N/A		**91.5**	**86.8**	**86.0**	**94.6**	**91.7**	**89.9**	**89.5**	**86.3**	**96.9**	**96.3**	**84.1**	**87.8**

Key at end of table.

Table 3-1 Summary of Positive Analytical Results for Soil Samples
Court Street and Luquer Street, Brooklyn, NY

Analyte	Screening Criteria[1]	Location ID:	CLMW-01	CLMW-01	CLMW-02
		Sample Name:	CLMW-01-Z12-13	CLMW-01-Z37-38	CLMW-02-Z17-18
		Depth:	12 - 13 ft	37 - 38 ft	17 - 18 ft
		Date:	11/06/24	11/06/24	11/01/24

Key:

Qualifiers

J = Estimated value

J+ = Estimated value with high bias

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

N/A = Not regulated/no available criteria

ft = feet below ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

-- = Analyte not analyzed for

Sample name ending in "Q" denotes field duplicate sample

100	Bold values denote positive hits.
100	Shaded values exceed Part 375 unrestricted SCO.

1. New York State Department of Environmental Conservation, 6 CRR-NY 375-6.8(a), Unrestricted Use Soil Cleanup Objectives.

Key at end of table.

Table 3-2 Summary of Positive VOCs Analytical Results for February 2024 Luquer Street Groundwater Sampling
Gowanus Canal Site, Brooklyn, NY

Analyte	Screening Criteria [1]	Location ID: CGMW-17 CH2 Depth: 27.2 - 27.4 ft Date: 02/15/24	CGMW-17 CH3 34.2 - 34.5 ft 02/01/24	CGMW-17 CH4 74.4 - 74.6 ft 02/01/24	CGMW-17 CH5 84.2 - 84.4 ft 02/01/24	CGMW-17 CH6 124 - 125 ft 02/01/24	CGMW-17 CH7 137 - 138 ft 02/01/24	CGMW-23 17 - 27 ft 02/15/24	CGMW-23-Q 17 - 27 ft 02/15/24	CGMW-63 27.5 - 37.5 ft 02/02/24
Volatile Organic Compounds by Method SW8260C (µg/L)										
Acetone	50	**47.3 J**	**92.1**	**4.6 J**	**18.2**	**6.3**	57.5 U	11.5 U	11.5 U	**2.9 J**
Benzene	1	**130**	**150**	**14000**	**870**	**320**	**2000**	1.2 U	**3.6 J**	0.12 U
Carbon Disulfide	60	2.7 U	2.7 U	0.27 U	**1.2**	0.27 U	13.5 U	2.7 U	2.7 U	0.27 U
Chloroform	7	1.4 U	1.4 U	0.14 U	0.14 U	0.14 U	7 U	1.4 U	1.4 U	**0.62 J**
cis-1,2-Dichloroethene	5	2 U	2 U	0.2 U	0.2 U	0.2 U	10 U	2 U	2 U	**2.4**
Ethylbenzene	5	**3.7 J**	**9.2 J**	**1600**	**84.1**	**51.4**	**130**	1.3 U	1.3 U	0.13 U
Isopropylbenzene (Cumene)	5	1.3 U	1.3 U	**70.2**	**2.4**	**1.2**	6.5 U	1.3 U	1.3 U	0.13 U
m,p-Xylene	5	3.1 U	3.1 U	**390**	**9.5**	**5.8**	15.5 U	3.1 U	3.1 U	0.31 U
Methyl Ethyl Ketone (2-Butanone)	50	12.1 U	12.1 U	1.2 U	**4.2 J**	**1.3 J**	60.5 U	12.1 U	12.1 U	1.2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		7.4 U	7.4 U	0.74 U	**1.2 J**	0.74 U	37 U	7.4 U	7.4 U	0.74 U
Methylcyclohexane		1.6 U	1.6 U	**0.51 J+**	0.16 U	0.16 U	8 U	1.6 U	1.6 U	0.16 U
o-Xylene	5	1.5 U	1.5 U	**340**	**12.7**	**7.1**	**20.1 J**	1.5 U	1.5 U	0.15 U
Tetrachloroethene (PCE)	5	1.7 U	1.7 U	0.17 U	0.17 U	0.17 U	8.5 U	1.7 U	1.7 U	**30.8**
Toluene	5	1.4 U	1.4 U	**94.8**	**2.7**	**1.2**	7 U	1.4 U	1.4 U	0.14 U
Trichloroethene (TCE)	5	2.6 U	2.6 U	0.26 U	0.26 U	0.26 U	13 U	2.6 U	2.6 U	**1.6**

Key:

Qualifiers

J = Estimated value

J+ = Estimated value with high bias

U = Not detected (method detection limit shown)

Other

µg/L = Micrograms per liter

"-Q" denotes field duplicate sample

1	Bold values denote positive hits.
10	Exceeds groundwater standard.

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Key at end of table.

Source: Ecology and Environment Engineering, P.C. 2015

Table 3-3 Summary of Positive VOCs Analytical Results for June 2024 Citizens Off-Site Monitoring Wells Groundwater Samples
Brooklyn, New York

Analyte	Location ID: / Depth: / Date: / Screening Criteria [1]	CGMW-12 21 ft 06/26/24	CGMW-18-CH1 14 ft 06/25/24	CGMW-18-CH2 23 ft 06/25/24	CGMW-18-CH3 31 ft 06/25/24	CGMW-18-CH5 56 ft 06/25/24	CGMW-18-CH6 71 ft 06/25/24	CGMW-18-CH7 78 ft 06/25/24	CGMW-25R 48 ft 06/27/24	CGMW-60 22 ft 06/27/24	CGMW-60 22 ft 06/27/24	CGMW-61D 130 ft 06/27/24	CGMW-61I 71 ft 06/27/24	CGMW-62D 150 ft 06/26/24	CGMW-62I 86 ft 06/26/24	CGMW-64D 150 ft 06/27/24	CGMW-64I 92 ft 06/27/24
Volatile Organic Compounds by Method 8260 (µg/L)																	
1,1-Dichloroethene	5	0.327 U	3.27 U	3.27 UJ	3.27 UJ	0.327 U	0.327 U	0.327 U	0.327 U	3.27 U	3.27 U	0.327 U	1.64 U	0.327 U	**0.44 J**	0.327 U	0.327 U
1,2,4-Trimethylbenzene	5	0.31 U	**83.4**	**1760**	**1410**	**2.28**	**1.48**	**2.24**	0.31 U	**40.1**	**30.4**	0.31 U	**195**	0.31 U	0.31 U	0.31 U	0.31 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.347 U	**8**	**482**	**484**	**0.6**	0.347 U	**0.52**	0.347 U	**7**	**5.1**	0.347 U	**49.7**	0.347 U	0.347 U	0.347 U	0.347 U
1,4-Diethyl Benzene	N/A	0.341 U	3.41 U	**61.3**	3.41 U	0.341 U	0.341 U	0.341 U	0.341 U	**27.3**	**24.1**	0.341 U	**4.05**	0.341 U	0.341 U	0.341 U	0.341 U
4-Ethyltoluene	N/A	0.2 U	**12.3**	**376**	**692**	**1.71**	**1.34**	**1.62**	0.2 U	**24.5**	**19.5**	0.2 U	**74.4**	0.2 U	0.2 U	0.2 U	0.2 U
Acetone	50	**2.79 J**	13.4 UJ	13.4 UJ	13.4 UJ	1.34 UJ	1.34 UJ	1.34 UJ	1.34 UJ	13.4 UJ	13.4 UJ	**13.2 J**	6.7 UJ	1.34 UJ	1.34 UJ	1.34 UJ	1.34 UJ
Benzene	1	0.279 U	**620**	**3640**	**7920**	**4.63**	**3.59**	**5.25**	0.279 U	**101**	**81.9**	0.279 U	**148**	0.279 U	0.279 U	0.279 U	0.279 U
Carbon Disulfide	60	0.362 U	3.62 U	3.62 UJ	3.62 UJ	0.362 U	0.362 U	0.362 U	0.362 U	3.62 U	3.62 U	0.362 U	1.81 U	0.362 U	0.362 U	0.362 U	0.362 U
Chloroform	7	0.243 U	2.43 U	2.43 UJ	2.43 UJ	0.243 U	0.243 U	0.243 U	**0.25 J**	2.43 U	2.43 U	0.243 U	1.22 U	0.243 U	0.243 U	0.243 U	0.243 U
Chloromethane (Methyl chloride)	5	0.372 U	3.72 U	3.72 UJ	3.72 UJ	0.372 U	0.372 U	0.372 U	0.372 U	3.72 U	3.72 U	0.372 U	1.86 U	0.372 U	0.372 U	0.372 U	0.372 U
cis-1,2-Dichloroethene	5	0.294 U	2.94 U	2.94 UJ	**85.7 J-**	0.294 U	0.294 U	0.294 U	0.294 U	2.94 U	2.94 U	0.294 U	1.47 U	**49.2**	**67**	0.294 U	0.294 U
Cyclohexane	N/A	0.491 U	4.91 U	4.91 UJ	4.91 UJ	0.491 U	0.491 U	0.491 U	0.491 U	**413**	**382**	0.491 U	2.46 U	**0.84**	**1.72**	0.491 U	0.491 U
Dibromomethane	5	0.203 U	2.03 U	2.03 U	2.03 U	0.203 U	0.203 U	0.203 U	0.203 U	2.03 U	2.03 U	0.203 U	1.02 U	0.203 U	0.203 U	0.203 U	0.203 U
Ethylbenzene	5	0.29 U	**120**	**1050**	**2400**	**6.34**	**7.85**	**1.5**	0.29 U	**54.9**	**43.1**	0.29 U	**353**	0.29 U	0.29 U	0.29 U	0.29 U
Isopropylbenzene (Cumene)	5	0.405 U	**18.4**	**484**	**50.9**	0.405 U	0.405 U	0.405 U	0.405 U	**125**	**108**	0.405 U	**4.3**	0.405 U	0.405 U	0.405 U	0.405 U
m,p-Xylene	5	0.578 U	**134**	**457**	**8920**	**4.66**	**5.95**	**6.52**	0.578 U	**51.4**	**34.6**	0.578 U	**538**	0.578 U	0.578 U	0.578 U	0.578 U
Methyl Ethyl Ketone (2-Butanone)	50	**0.86**	4.21 U	4.21 UJ	4.21 UJ	0.421 U	0.421 U	0.421 U	0.421 U	4.21 U	4.21 U	**6.94**	2.1 U	0.421 U	0.421 U	0.421 UR	0.421 UR
Methylcyclohexane	N/A	0.477 U	4.77 U	4.77 U	4.77 U	0.477 U	0.477 U	0.477 U	0.477 U	**254**	**228**	0.477 U	2.38 U	0.477 U	0.477 U	0.477 U	0.477 U
Methylene Chloride	5	0.397 U	3.97 U	3.97 UJ	3.97 UJ	0.397 U	0.397 U	0.397 U	0.397 U	**4.4 J**	**4.2 J**	0.397 U	**2.05 J**	0.397 U	0.397 U	0.397 U	0.397 U
Naphthalene	10	**1.85 J**	**773**	**22600**	**23500**	**55.5**	**38**	**28.7**	**3.03**	**657 J**	**108 J**	**0.82 J**	**1910 J**	0.212 U	**18.3**	0.212 U	**0.29 J**
N-Butylbenzene	5	0.399 U	3.99 U	**429**	**8**	0.399 U	0.399 U	0.399 U	0.399 U	**16.8**	**14.9**	0.399 U	2 U	0.399 U	0.399 U	0.399 UJ	0.399 UJ
N-Propylbenzene	5	0.384 U	3.84 U	**84.8**	**50.2**	0.384 U	0.384 U	0.384 U	0.384 U	**139**	**120**	0.384 U	**9.85**	0.384 U	0.384 U	0.384 UJ	0.384 UJ
o-Xylene (1,2-Dimethylbenzene)	5	0.261 U	**106**	**588**	**5140**	**2.54**	**2.91**	**3.42**	0.261 U	**15 J**	**8.3 J**	0.261 U	**353**	0.261 U	0.261 U	0.261 U	0.261 U
p-Cymene (p-Isopropyltoluene)	N/A	0.377 U	3.77 U	**56.4**	**28.7**	0.377 U	0.377 U	0.377 U	0.377 U	**10.6**	**9.2**	0.377 U	**2.05 J**	0.377 U	0.377 U	0.377 U	0.377 U
sec-Butylbenzene	5	0.444 U	4.44 U	4.44 U	4.44 U	0.444 U	0.444 U	0.444 U	0.444 U	**18.8**	**16.7**	0.444 U	2.22 U	0.444 U	**0.72**	0.444 UJ	0.444 UJ
Styrene	5	0.255 U	**44.6**	**49.7**	**5700**	**0.89**	**0.41 J**	0.255 U	0.255 U	**4 J**	2.55 U	0.255 U	**282**	0.255 U	0.255 U	0.255 U	0.255 U
t-Butylbenzene	5	0.367 U	3.67 U	3.67 U	3.67 U	0.367 U	0.367 U	0.367 U	0.367 U	3.67 U	3.67 U	0.367 U	1.84 U	0.367 U	0.367 U	0.367 U	0.367 U
tert-Butyl Methyl Ether	10	0.244 U	2.44 U	2.44 UJ	2.44 UJ	0.244 U	0.244 U	0.244 U	0.244 U	2.44 U	2.44 U	0.244 U	1.22 U	**1.00**	**1.06**	**3.34**	**4.98**
Tetrachloroethene (PCE)	5	0.239 UJ	2.39 UJ	2.39 UJ	2.39 UJ	0.239 UJ	0.239 UJ	0.239 UJ	**0.32 J**	2.39 UJ	2.39 UJ	0.239 UJ	1.2 UJ	0.239 UJ	0.239 UJ	0.239 UJ	**0.51 J**
Toluene	5	0.346 U	**519**	**75.3**	**54200**	**6.37**	**7.86**	**4.56**	0.346 U	**35.1 J**	**19.2 J**	0.346 U	**117**	0.346 U	0.346 U	0.346 U	0.346 U
trans-1,2-Dichloroethene	5	0.279 U	2.79 U	2.79 UJ	2.79 UJ	0.279 U	0.279 U	0.279 U	0.279 U	2.79 U	2.79 U	0.279 U	1.4 U	**1.76**	**3.06**	0.279 U	0.279 U
Trichloroethene (TCE)	5	0.249 U	2.49 U	2.49 U	2.49 U	0.249 U	0.249 U	0.249 U	0.249 U	2.49 U	2.49 U	0.249 U	1.24 U	**4.53**	**1.22**	0.249 U	**0.54**
Vinyl Chloride	2	0.469 UJ	4.69 UJ	4.69 UJ	4.69 UJ	0.469 UJ	0.469 UJ	0.469 UJ	0.469 UJ	4.69 UJ	4.69 UJ	0.469 UJ	2.34 UJ	**2.05 J**	**3.36 J**	0.469 U	0.469 U
Xylenes	5	0.839 U	**239**	**1040**	**14100**	**7.2**	**8.86**	**9.94**	0.839 U	**66.4**	**42.9**	0.839 U	**891**	0.839 U	0.839 U	0.839 U	0.839 U

Key:

Qualifiers	**1** Bold values denote positive hits.
EMPC = Estimated Maximum Potential Concentration	**10** Exceeds groundwater standard.
J = Estimated value	
J- = Estimated value with low bias	
U = Not detected (method detection limit shown)	
UJ = Not detected/estimated detection limit	
UR = Not detected/detection limit rejected	
Notes	
N/A = Not regulated/no available criteria	
Other	
µg/L = Micrograms per liter	

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C.

Table 3-3 Summary of Positive VOCs Analytical Results for June 2024 Citizens Off-Site Monitoring Wells Groundwater Samples
Brooklyn, New York

Analyte	Location ID: / Depth: / Date: / Screening Criteria [1]	CGMW-65D 130 ft 06/25/24	CGMW-65I 82 ft 06/25/24	CGMW-65S 32 ft 06/25/24	CGMW-66D 130 ft 06/26/24	CGMW-66D 130 ft 06/26/24	CGMW-66I 67 ft 06/26/24	CGMW-67I 45 ft 06/26/24	CGMW-67S 18 ft 06/26/24	CGMW-XX 75 ft 06/27/24
Volatile Organic Compounds by Method 8260 (µg/L)										
1,1-Dichloroethene	5	0.327 U	3.27 U	0.327 U	0.327 U	0.327 U	0.327 U	1.64 U	0.327 U	0.327 U
1,2,4-Trimethylbenzene	5	0.31 U	**449**	0.31 U	0.31 U	0.31 U	0.31 U	**92.3**	0.31 U	0.31 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.347 U	**15.6**	0.347 U	0.347 U	0.347 U	0.347 U	1.74 U	0.347 U	0.347 U
1,4-Diethyl Benzene	N/A	0.341 U	**4.4 J**	0.341 U	0.341 U	0.341 U	0.341 U	**10**	0.341 U	0.341 U
4-Ethyltoluene	N/A	0.2 U	**9.9**	0.2 U	0.2 U	0.2 U	0.2 U	**5.55**	0.2 U	0.2 U
Acetone	50	1.69 UJ	**22.1 J**	1.43 UJ	1.34 UJ	1.34 UJ	1.34 UJ	6.7 UJ	1.34 UJ	1.34 UJ
Benzene	1	0.279 U	2.79 U	0.279 U	0.279 U	0.279 U	0.279 U	**181**	0.279 U	0.279 U
Carbon Disulfide	60	0.362 U	3.62 U	0.362 U	0.362 U	0.362 U	0.362 U	1.81 U	0.362 U	0.362 U
Chloroform	7	0.243 U	2.43 U	0.243 U	0.243 U	0.243 U	0.243 U	1.22 U	0.243 U	**0.56**
Chloromethane (Methyl chloride)	5	0.372 U	3.72 U	0.372 U	0.372 U	0.372 U	0.372 U	1.86 U	0.372 U	0.372 U
cis-1,2-Dichloroethene	5	0.294 U	2.94 U	**0.93**	0.294 U	0.294 U	0.294 U	1.47 U	0.294 U	0.294 U
Cyclohexane	N/A	0.491 U	4.91 U	0.491 U	0.491 U	0.491 U	0.491 U	2.46 U	**3.54**	0.491 U
Dibromomethane	5	0.203 U	2.03 U	0.203 U	0.203 U	0.203 U	0.203 U	1.02 U	0.203 U	0.203 U
Ethylbenzene	5	0.29 U	**638**	0.29 U	0.29 U	0.29 U	0.29 U	**350**	0.29 U	0.29 U
Isopropylbenzene (Cumene)	5	0.405 U	**99.4**	0.405 U	0.405 U	0.405 U	0.405 U	**45**	0.405 U	0.405 U
m,p-Xylene	5	0.578 U	**15.9**	0.578 U	0.578 U	0.578 U	0.578 U	**14.3**	0.578 U	0.578 U
Methyl Ethyl Ketone (2-Butanone)	50	0.421 U	4.21 U	0.421 U	0.421 U	0.421 U	0.421 U	2.1 U	0.421 UR	0.421 UR
Methylcyclohexane	N/A	0.477 U	4.77 U	0.477 U	0.477 U	0.477 U	0.477 U	2.38 U	**1.01**	0.477 U
Methylene Chloride	5	0.397 U	3.97 U	0.397 U	0.397 U	0.397 U	0.397 U	1.98 U	0.397 U	0.397 U
Naphthalene	10	**20.1**	**3150**	**4.58**	**5.33**	**2.66**	0.93 U	**1050**	**2.41**	0.212 U
N-Butylbenzene	5	0.399 U	3.99 U	0.399 U	0.399 U	0.399 U	0.399 U	2 U	0.399 U	0.399 UJ
N-Propylbenzene	5	0.384 U	**21.6**	0.384 U	0.384 U	0.384 U	0.384 U	**17.2**	0.384 U	0.384 UJ
o-Xylene (1,2-Dimethylbenzene)	5	0.261 U	**519**	0.261 U	0.261 U	0.261 U	0.261 U	**44.4**	0.261 U	0.261 U
p-Cymene (p-Isopropyltoluene)	N/A	0.377 U	3.77 U	0.377 U	0.377 U	0.377 U	0.377 U	**3.2**	0.377 U	0.377 U
sec-Butylbenzene	5	0.444 U	4.44 U	0.444 U	0.444 U	0.444 U	0.444 U	2.22 U	**0.58**	0.444 UJ
Styrene	5	0.255 U	**17**	0.255 U	0.255 U	0.255 U	0.255 U	**1.75 J**	0.255 U	0.255 U
t-Butylbenzene	5	0.367 U	3.67 U	0.367 U	0.367 U	0.367 U	0.367 U	1.84 U	**1.72**	0.367 U
tert-Butyl Methyl Ether	10	0.244 U	2.44 U	0.244 U	**0.49 J**	**0.49 J**	0.244 U	1.22 U	0.244 U	0.244 U
Tetrachloroethene (PCE)	5	0.239 UJ	2.39 UJ	**1.03 J**	0.239 UJ	0.239 UJ	0.239 UJ	1.2 UJ	0.239 UJ	0.239 UJ
Toluene	5	0.346 U	**16.1**	0.346 U	0.346 U	0.346 U	0.346 U	**7**	0.346 U	0.346 U
trans-1,2-Dichloroethene	5	0.279 U	2.79 U	0.279 U	0.279 U	0.279 U	0.279 U	1.4 U	0.279 U	0.279 U
Trichloroethene (TCE)	5	0.249 U	2.49 U	**0.33 J**	0.249 U	0.249 U	0.249 U	1.24 U	0.249 U	0.249 UJ
Vinyl Chloride	2	0.469 U	4.69 U	0.469 U	0.469 UJ	0.469 UJ	0.469 UJ	2.34 UJ	0.469 UJ	0.469 U
Xylenes	5	0.839 U	**535**	0.839 U	0.839 U	0.839 U	0.839 U	**58.6**	0.839 U	0.839 U

Key:

Qualifiers	**1**
EMPC = Estimated Maximum Potential Concentration	**10**

J = Estimated value
J- = Estimated value with low bias
U = Not detected (method detection limit shown)
UJ = Not detected/estimated detection limit
UR = Not detected/detection limit rejected

Notes
N/A = Not regulated/no available criteria

Other
µg/L = Micrograms per liter

1. New York State Department of Environmental Conservation, Technical and Operat
Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values*
Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Gui

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C.

Table 3-4 Summary of Analytical Results for Groundwater Samples
Court Street and Luquer Street, Brooklyn, NY

Analyte	Screening Criteria [1]	Notes	Location ID:	CLMW-01S	CLMW-02I	CLMW-02S	CLMW-03I	CLMW-03I Duplicate	CLMW-04I	CLMW-04S	CLMW-05I	CLMW-05S	CLMW-06
			Depth:	32 - 34 ft	34 - 51 ft	34 - 36 ft	36 - 46 ft	36 - 46 ft	33 - 52 ft	33 - 37 ft	35 - 50 ft	35 - 37 ft	40 - 47 ft
			Date:	11/13/24	11/18/24	11/19/24	11/19/24	11/19/24	11/14/24	11/14/24	11/15/24	11/15/24	11/20/24
Volatile Organic Compounds by Method SW8260D (µg/L)													
Bromodichloromethane	50	G		**1.1**	0.19 U	**0.61**	0.19 U	0.19 U	**0.30 J**	**0.41 J**	**0.24 J**	**0.22 J**	0.19 U
Chloroform	7			**15**	**2.0**	**26**	**2.2**	**2.1**	**3.6**	**2.8**	**3.4**	**3.4**	**6.1**
cis-1,2-Dichloroethene	5			**1.3 J**	0.2 U	**0.38 J**	0.2 U	0.2 U	**0.54 J**	0.2 U	0.2 U	0.2 U	**0.48 J**
Methylene Chloride	5			0.38 U	0.19 U	**0.38 J**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
tert-Butyl Methyl Ether	10	G		0.33 U	0.17 U	0.17 U	0.17 U	0.17 U	**0.19 J**	0.17 U	**0.23 J**	0.17 U	0.17 U
Tetrachloroethene (PCE)	5			**170**	**28**	**79**	**45**	**44**	**140**	**5.0**	**16 J**	**17**	**76**
Trichloroethene (TCE)	5			**5.0**	**0.69 J**	**1.4**	**0.53 J**	**0.47 J**	**2.8**	0.17 U	**0.23 J**	**0.24 J**	**1.6**
Semivolatile Organic Compounds by Method SW8270E (µg/L)													
Di-N-Butyl Phthalate	50			0.45 UJ	0.46 UJ	**1.1 J**	0.47 U	0.45 U	0.49 U	0.45 U	0.48 U	0.45 U	0.48 U
1,4-Dioxane by Method SW8270DSIM (µg/L)													
1,4-Dioxane (P-Dioxane)	0.35	[2]		0.032 U	0.031 UJ	0.033 U	0.031 U	0.031 U	0.032 U	0.032 U	**0.12 J**	0.032 U	0.032 U
Organochlorine Pesticides by Method SW8081B (µg/L)													
All results were non-detect.													
PCBs by Method SW8082A (µg/L)													
All results were non-detect.													
Per- and Polyfluoroalkyl Substances by Method E1633 (ng/L)													
Perfluorobutanesulfonic acid (PFBS)	N/A			**4.8**	**6.7**	**120 J**	**57**	**65**	**7.6**	**14**	**0.53 J+**	**20**	**6.0**
Perfluorobutanoic Acid	N/A			**22**	**15**	**11**	**19**	**21**	**21**	**22**	0.77 U	**11**	**12**
Perfluoroheptanoic acid (PFHpA)	N/A			**29**	**27**	**14**	**16**	**17**	**41**	**29**	**0.46 J**	**15**	**19**
Perfluorohexanesulfonic acid (PFHxS)	N/A			**3.6**	**6.7**	**2.2**	**6.5**	**7.3**	**6.7**	**8.8**	0.6 U	**5.3**	**4.2**
Perfluorohexanoic acid (PFHxA)	N/A			**32**	**18**	**13**	**17**	**19**	**30**	**34**	**0.75 J**	**15**	**16**
Perfluorononanoic acid (PFNA)	N/A			**1.7**	**1.2 J**	0.61 U	**0.63 J**	**0.73 J**	**0.75 J**	0.64 U	0.63 U	0.64 U	**2.3**
Perfluorooctanesulfonic acid (PFOS)	2.7	[2]		**4.1**	**7.1 J**	**1.3 J**	**3.1**	**3.0**	**2.4 J**	0.39 U	**0.96 J**	**4.9**	**7.1 J**
Perfluorooctanoic acid (PFOA)	6.7	[2]		**210**	**210**	**90**	**140**	**150**	**300**	**250**	**1.6 J+**	**140**	**190**
Perfluoropentanesulfonic Acid (PFPeS)	N/A			0.45 U	**1.0 J**	**0.44 J**	**0.60 J**	**0.54 J**	**0.79 J**	**1.2 J**	0.45 U	0.46 U	0.47 U
Perfluoropentanoic Acid (PFPeA)	N/A			**32**	**19**	**14**	**20**	**22**	**28**	**36**	0.43 U	**16**	**16**
Metals by Method SW6010D (mg/L)													
Aluminum	N/A			**0.064**	0.025 U	**0.15**	**0.17**	**0.12**	0.025 U	0.025 U	0.025 U	**0.030 J**	**0.029 J**
Antimony	0.003			0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.015 J**
Barium	1			**0.077**	**0.18**	**0.064**	**0.12**	**0.12**	**0.31**	**0.73**	**0.16**	**0.15**	**0.19**
Calcium	N/A			**63**	**110**	**66**	**51**	**50**	**130**	**380**	**86**	**62**	**75**
Cobalt	N/A			0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	**0.018**	0.0027 U
Copper	0.2			0.0095 U	0.0095 U	**0.013**	**0.017**	**0.016**	0.0095 U	0.0095 U	0.0095 U	0.0095 U	**0.010**
Iron	0.3			**0.11**	0.036 U	**0.23**	**0.29**	**0.21**	**0.037 J**	**0.056**	0.036 U	**0.071**	**0.070**
Magnesium	35	G		**19**	**35**	**15**	**18**	**17**	**78**	**200**	**29**	**28**	**30**
Manganese	0.3			**0.041**	**0.18**	**0.040**	**0.27**	**0.26**	**0.57**	**0.082**	**0.34**	**0.38**	**0.31**
Nickel	0.1			0.0046 U	0.0066 U	0.0065 U	**0.018**	**0.018**	**0.0067 J**	**0.0096 J**	**0.0055 J**	**0.0059 J**	**0.0060 J**

Key at end of table.

Table 3-4 Summary of Analytical Results for Groundwater Samples
Court Street and Luquer Street, Brooklyn, NY

Analyte	Screening Criteria [1]	Notes	Location ID:	CLMW-01S	CLMW-02I	CLMW-02S	CLMW-03I	CLMW-03I Duplicate	CLMW-04I	CLMW-04S	CLMW-05I	CLMW-05S	CLMW-06
			Depth:	32 - 34 ft	34 - 51 ft	34 - 36 ft	36 - 46 ft	36 - 46 ft	33 - 52 ft	33 - 37 ft	35 - 50 ft	35 - 37 ft	40 - 47 ft
			Date:	11/13/24	11/18/24	11/19/24	11/19/24	11/19/24	11/14/24	11/14/24	11/15/24	11/15/24	11/20/24
Potassium	N/A			**5.5**	**10**	**8.3**	**4.0**	**3.9**	**6.4**	**9.8**	**8.1**	**5.5**	**4.4**
Silver	0.05			0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	**0.024**
Sodium	20			**230**	**110**	**220**	**440**	**440**	**350**	**1400**	**140**	**380**	**220**
Vanadium	N/A			0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	**0.0067 J**	0.0054 U	0.0054 U	0.0054 U
Zinc	2			0.008 U	0.008 U	0.008 U	**0.011**	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
Mercury by Method SW7471B (mg/L)													
All results were non-detect.													
Cyanide by Method SW9012B (mg/L)													
Cyanide	0.2			0.0088 U	0.0088 U	0.0088 U	**0.0096 J**	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. 2023 Addendum to New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Key:

Qualifiers

J = Estimated value

J+ = Estimated value with high bias

J- = Estimated value with low bias

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

G = Guidance value (no standard available)

N/A = Not regulated/no available criteria

Other

µg/L = Micrograms per liter

mg/L = Milligrams per liter

ng/L = Nanograms per liter

"-Q" denotes field duplicate sample

Bold values denote positive hits.

Shaded cells exceed NYSDEC groundwater standard or guidance value.



Figure 3-1
Soil PCE/TCE/DCE Sample Results
Court and Luquer Source Area Trackdown
Brooklyn, New York

Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 3-2
Shallow Well PCE/TCE/DCE Groundwater Results
Court and Luquer Source Area Trackdown
Brooklyn, New York



Prepared by:
ecology and environment engineering and geology, p.c.

Prepared for:
NEW YORK STATE Department of Environmental Conservation

Figure 3-3
Intermediate Well PCE/TCE/DCE Groundwater Results
Court and Luquer Source Area Trackdown
Brooklyn, New York

4 Summary

The primary objective of this investigation was to attempt to determine the source or sources of CVOC contamination identified during SVI sampling conducted in the area during the 2023–2024 heating season. As part of this investigation, a total of 24 soil samples were collected during the installation of 10 boreholes and monitoring wells, and nine groundwater samples were obtained from the newly installed wells. To further support the analysis, groundwater results for PCE, TCE, and DCE from five existing monitoring wells sampled in February and June 2024 were specifically selected for consideration due to their proximity to the newly installed wells. The results from these five existing wells were used in conjunction with the new data to analyze PCE trends in the area and to understand the distribution and migration of CVOC contamination in the vicinity of the new monitoring locations.

4.1 Subsurface Soil Results

Twenty-four soil samples were collected from six boreholes during this investigation. None of the soil samples yielded concentrations of CVOCs exceeding screening criteria. PCE was detected in 11 soil samples, with the highest concentrations found below the water table—0.0060 mg/kg (CLMW-01-Z37-38) and 0.0061 mg/kg (CLMW-04-Z45-46)—but all were below the NYSDEC Unrestricted SCO of 1.3 mg/kg.

In addition, 17 metals were detected across all samples, with nickel exceeding the Unrestricted SCO screening level (30 mg/kg) in one sample (CLMW-05-Z11-12 at 34 mg/kg) but below the Residential SCO of 140 mg/kg.

SVOCs, pesticides, herbicides, PCBs, and PFAS were not detected in any of the soil samples above applicable screening levels. Overall, CVOC soil contamination detected at the Site was limited to PCE at concentrations below regulatory thresholds.

4.2 Groundwater Results

Nine groundwater samples were collected during this investigation from the newly installed monitoring wells. Eight of nine monitoring wells contained PCE at concentrations that exceeded the NYSDEC Class GA groundwater standard of 5 µg/L. The highest PCE concentrations were detected in shallow monitoring well CLMW-01S (170 µg/L), and intermediate well CLMW-04I (140 µg/L). Lower PCE concentrations were observed in the other Site wells, including CLMW-04S (5 µg/L) and CLMW-06S (79 µg/L).

PCE detections were observed in both shallow wells screened across the water table (CLMW-01S, screened 20–30 feet BGS) and intermediate-depth wells screened below the water table (CLMW-04I, screened 40–50 feet BGS). CLMW-01S is located north and upgradient of the St. Mary Star of the Sea rectory and church, and CLMW-04I is located southwest and downgradient of the rectory and church. The PCE results for shallow and intermediate-screened wells are presented on Figures 3-2 and 3-3, respectively.

Groundwater sampling results from previous sampling events (Luquer Street and Citizens MGP off-site investigations, February and June 2024) were reviewed. Five monitoring wells located near the newly installed wells were considered: CGMW-63, CGMW-25R, CGMW-64I, CGMW-23, and CGM-17 (CH2–CH3). Of these, only well (CGMW-63) exhibited PCE detections, with a concentration of 30.8 µg/L. PCE was not detected in the other four wells.

Chloroform exceeded the Class GA groundwater standard of 7 µg/L in groundwater samples from CLMW-01S (15 µg/L) and CLMW-02S (26 µg/L). PFOA was detected in groundwater samples from all monitoring wells except for CLMW-05I. PFOA concentrations ranged from 90 ng/L (CLMW-02S) to 300 ng/L (CLMW-04I), exceeding the guidance value of 6.7 ng/L.PFOS was detected in about half of the groundwater samples collected and at lower concentrations than PFOA (less than 1 to 7.1 ng/L). Several other PFAS compounds were detected in all of the sampled wells; however, no guidance values exist for comparison with the detected concentrations (see Table 3-4).

Metals detected at concentrations above NYSDEC Class GA standards or guidance values include antimony in one well, magnesium in two wells, manganese in four wells, and sodium in all wells.

4.3 Groundwater Elevation Summary

E & E conducted groundwater elevation surveys in December 2024 and March 2025. Two sets of monitoring wells were analyzed: shallow wells screened at approximately 20−30 feet BGS and intermediate wells screened at approximately 40−50 feet BGS.

Groundwater elevation measurements collected in December 2024 and March 2025 indicate generally consistent Site-wide conditions. In December 2024, groundwater elevations ranged from approximately 3.14 to 2.46 feet. In March 2025, elevations ranged from about 2.84 to 2.40 feet. Groundwater contour maps for the shallow and intermediate wells are provided on Figures 2-2 through 2-5.

Across the Site, groundwater generally flows west-southwest in both the shallow (water table) and intermediate well zones. The horizontal gradient is relatively low, with less than 0.5 feet of variation between the highest and lowest recorded elevations. Vertical gradients were also very low, ranging from downward to upward at different pairs of wells. Seasonal fluctuations between the two gauging

events were minor, and no significant changes in flow direction or hydraulic gradient were observed.

4.4 Suspected Source Area

Based on the analytical data collected during this and previous investigations, PCE and other CVOCs are present in shallow and intermediate groundwater and sub-slab vapor in the area; however, no specific source area has been identified.

4.5 Conclusion

As no specific source area has been identified, no further soil and groundwater investigation is proposed at this time. CVOC contamination is being addressed through on-going investigation and mitigation as part of the Gowanus Canal Area SVI site (Site No. 224133A).

5 References

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A Photographic Log

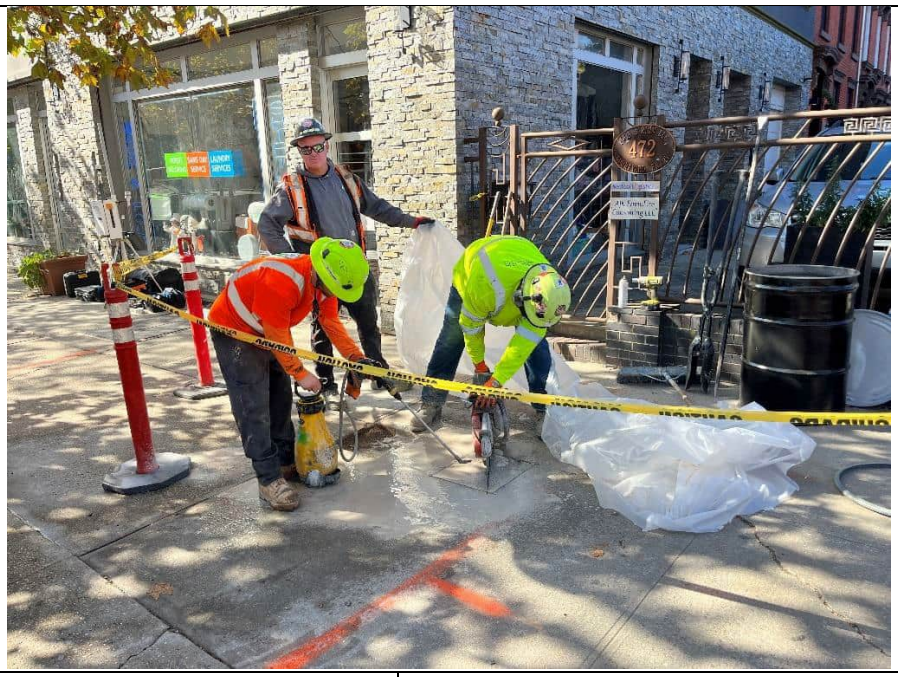


Photo No.:	01	**Direction of View:**	Southwest
Date:	10/28/2024	**Subject:** Cutting sidewalk for CLMW-06 installation.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	02	**Direction of View:**	Northeast
Date:	11/04/2024	**Subject:** Drilling of borehole for CLMW-06 monitoring well	
Photographer:	Chuck Porreca, E & E		



Photo No.:	03	**Direction of View:**	Northwest
Date:	11/04/2024	**Subject:** Sidewalk repair completed for CLMW-06 monitoring well.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	04	**Direction of View:**	South
Date:	10/30/2024	**Subject:** Hand-clearing boreholes for monitoring wells: CLMW-03S and CLMW-03I.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	05	**Direction of View:**	North
Date:	10/30/2024	**Subject:** CLMW-03S and CLMW-03I installed.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	06	**Direction of View:**	Northwest
Date:	11/04/2024	**Subject:** Sidewalk repair completed for CLMW-03S/I.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	07	**Direction of View:**	East
Date:	10/31/2024	**Subject:** Drilling boreholes for monitoring wells CLMW-05S/I.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	08	**Direction of View:**	North
Date:	10/31/2024	**Subject:** CAMP air monitoring station set-up adjacent to CLMW-05/I drilling location.	
Photographer:	Chuck Porreca, E & E		

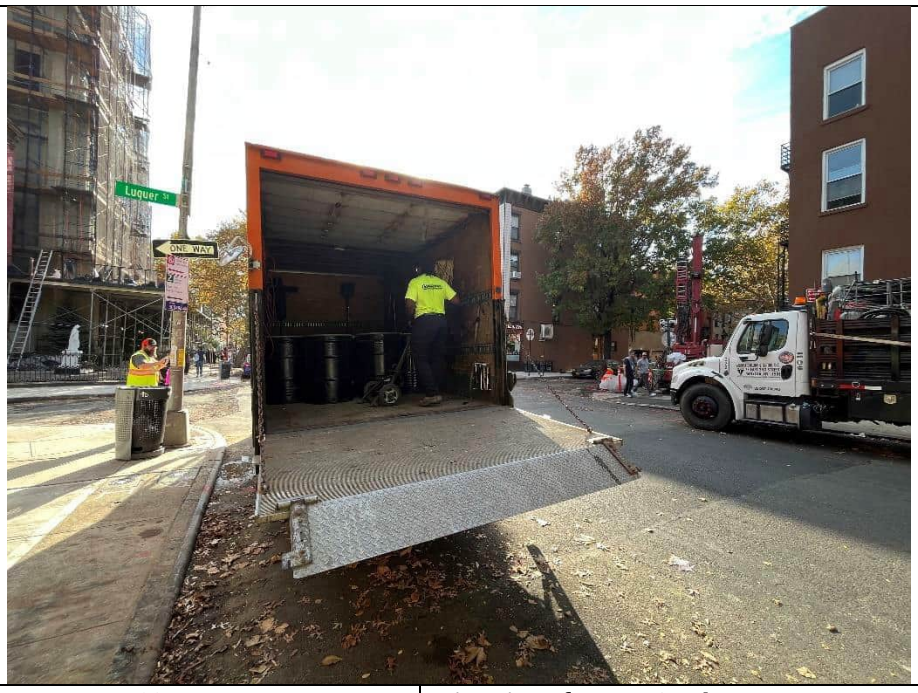


Photo No.:	09	**Direction of View:**	South
Date:	10/31/2024	**Subject:** IRT performing IDW drum pick-up.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	10	**Direction of View:**	West
Date:	11/04/2024	**Subject:** CLMW-05S/I monitoring wells installed and sidewalk repaired.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	11	**Direction of View:**	South
Date:	11/04/2024	**Subject:** Drilling borehole for CLMW-02S monitoring well.	
Photographer:	Chuck Porreca, E & E		

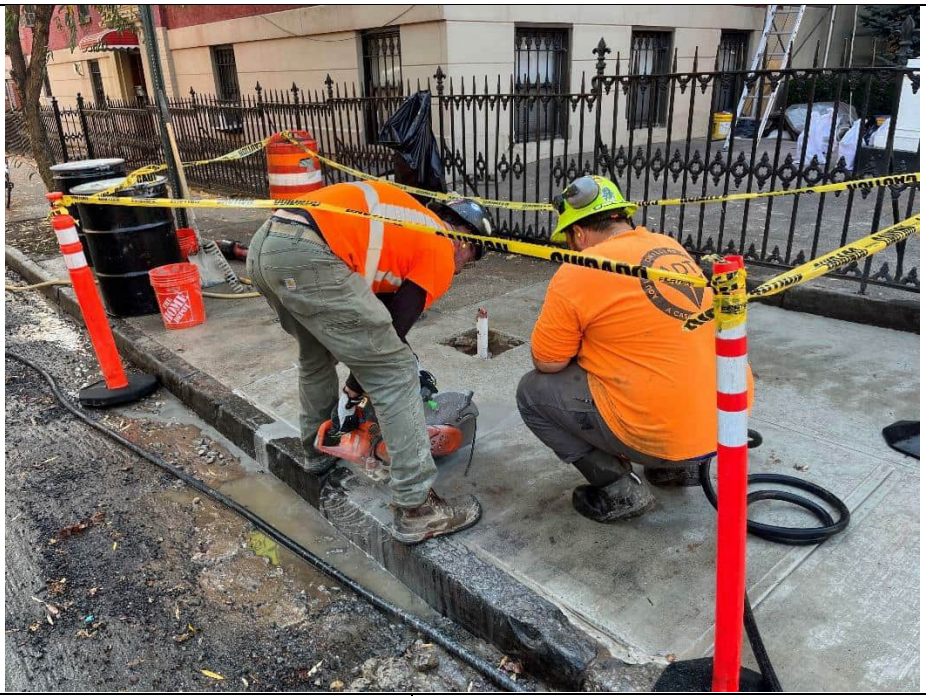


Photo No.:	12	**Direction of View:**	Southeast
Date:	11/05/2024	**Subject:** Installation of monitoring well CLMW-02S.	
Photographer:	Chuck Porreca, E & E		



Photo No.:	13	**Direction of View:**	NA
Date:	11/06/2024	**Subject:** CLMW-02S/I monitoring well installation and sidewalk repair completed.	
Photographer:	Chuck Porreca, E & E		

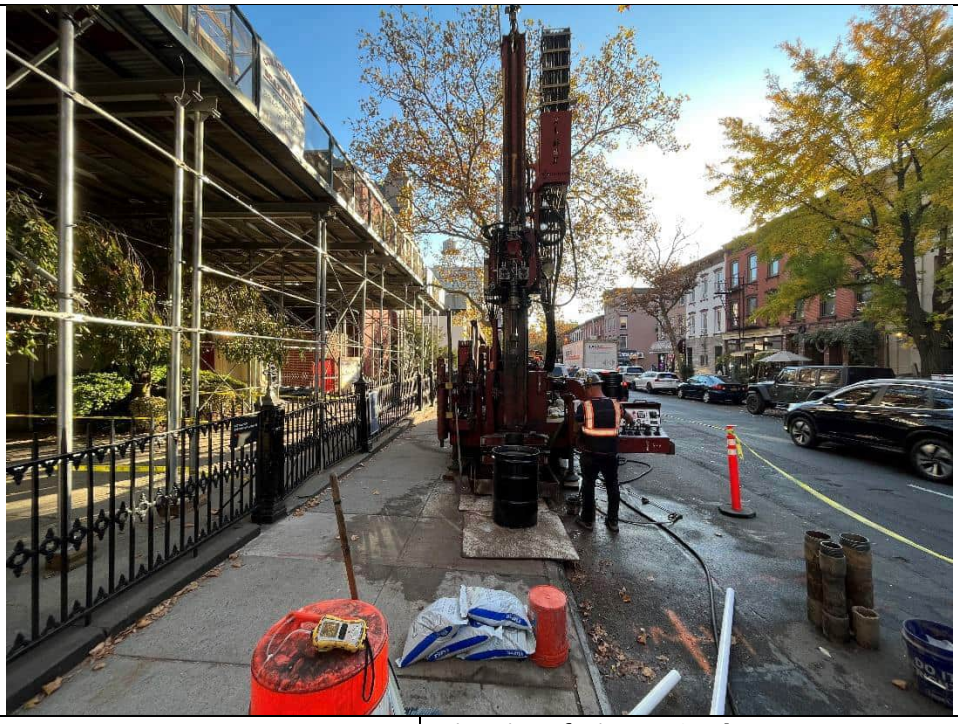


Photo No.:	14	**Direction of View:**	South
Date:	11/05/2024	**Subject:** Drilling boreholes for monitoring wells CLMW-04S/I.	
Photographer:	Chuck Porreca, E & E		

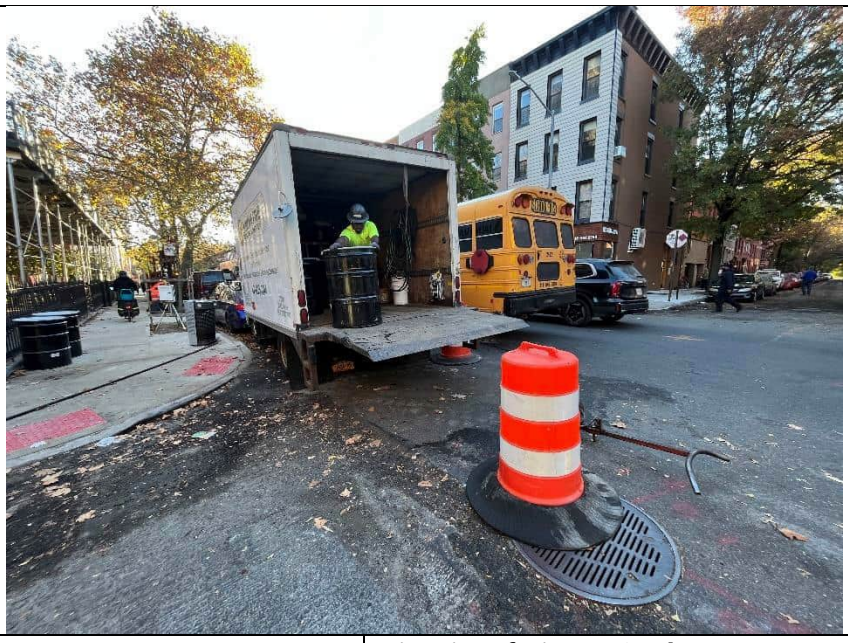


Photo No.:	15	**Direction of View:** Southwest
Date:	11/052024	**Subject:** IRT performing IDW drum pick-up for CLMW-04 well pair.
Photographer:	Chuck Porreca, E & E	



Photo No.:	16	**Direction of View:** N/A
Date:	11/05/2024	**Subject:** Representative soil collected from SB-04 borehole for the 5-10’ bgs interval.
Photographer:	Chuck Porreca, E & E	

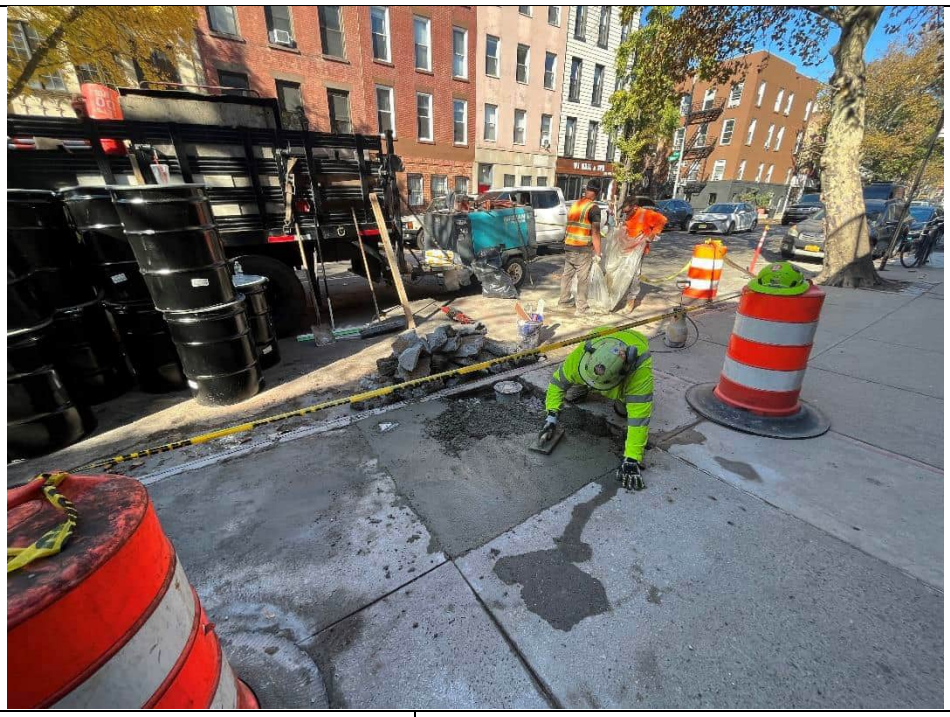


Photo No.:	17	**Direction of View:** Northwest
Date:	11/07/2024	**Subject:** CLMW-04S/I monitoring wells installed, ADT performing sidewalk repair.
Photographer:	Greg Mayer, E & E	

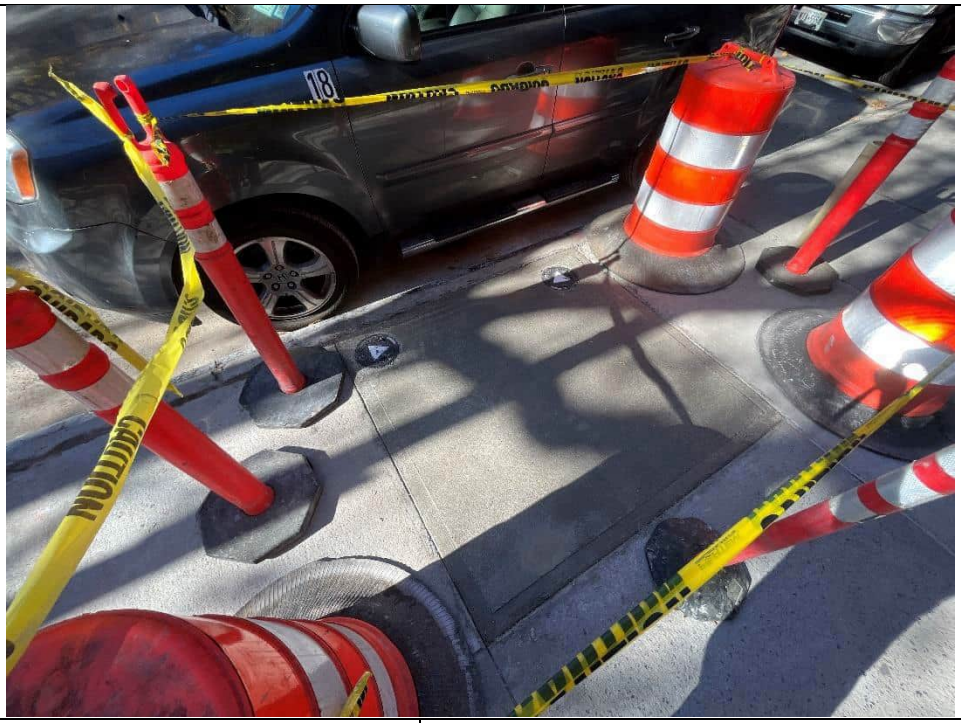


Photo No.:	18	**Direction of View:** NA
Date:	11/08/2024	**Subject:** Sidewalk repair completed for CLMW-04S/I monitoring well pair.
Photographer:	Chuck Porreca, E & E	



Photo No.:	19	**Direction of View:** East
Date:	11/06/2024	**Subject:** ADT drilling borehole for monitoring well CLMW-01S.
Photographer:	Chuck Porreca, E & E	



Photo No.:	20	**Direction of View:** N/A
Date:	11/06/2024	**Subject:** ADT installing monitoring well CLMW-01S.
Photographer:	Chuck Porreca, E & E	



Photo No.:	21	**Direction of View:** West
Date:	11/07/2024	**Subject:** Sidewalk repair completed for monitoring well CLMW-01S.
Photographer:	Chuck Porreca, E & E	



Photo No.:	22	**Direction of View:** West
Date:	11/11/2024	**Subject:** Development of monitoring well CLMW-01S.
Photographer:	Greg Mayer, E & E	



Photo No.:	23	**Direction of View:** Southeast
Date:	11/11/2024	**Subject:** Development of monitoring wells CLMW-04S/I.
Photographer:	Greg Mayer, E & E	



Photo No.:	24	**Direction of View:** N/A
Date:	11/13/2024	**Subject:** Groundwater sampling performed for CLMW-01S.
Photographer:	Greg Mayer, E & E	

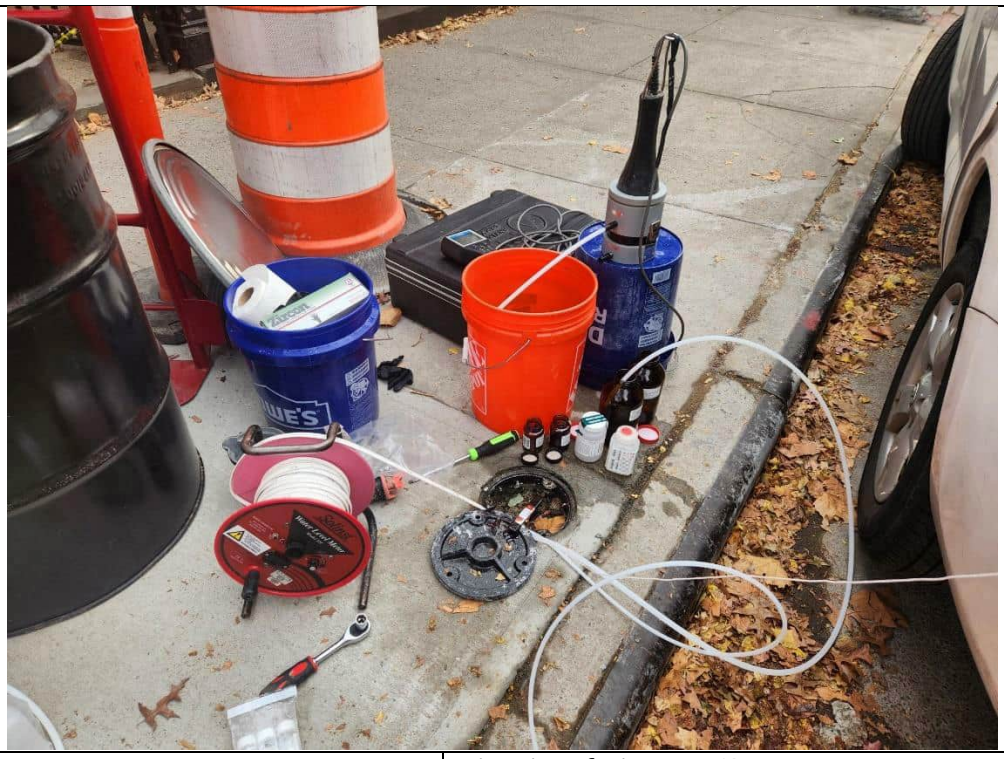


Photo No.:	25	**Direction of View:** N/A
Date:	11/14/2024	**Subject:** Groundwater sampling performed for CLMW-04S/I well pair.
Photographer:	Greg Mayer, E & E	



Photo No.:	26	**Direction of View:** East
Date:	11/15/2024	**Subject:** Groundwater sampling performed for monitoring wells CLMW-05S/I.
Photographer:	Greg Mayer, E & E	



Photo No.:	27	**Direction of View:** West
Date:	11/18/2024	**Subject:** Groundwater sampling performed for monitoring wells CLMW-02S/I.
Photographer:	Greg Mayer, E & E	



Photo No.:	28	**Direction of View:** East
Date:	11/19/2024	**Subject:** PJO performing field survey of monitoring well locations.
Photographer:	Greg Mayer, E & E	

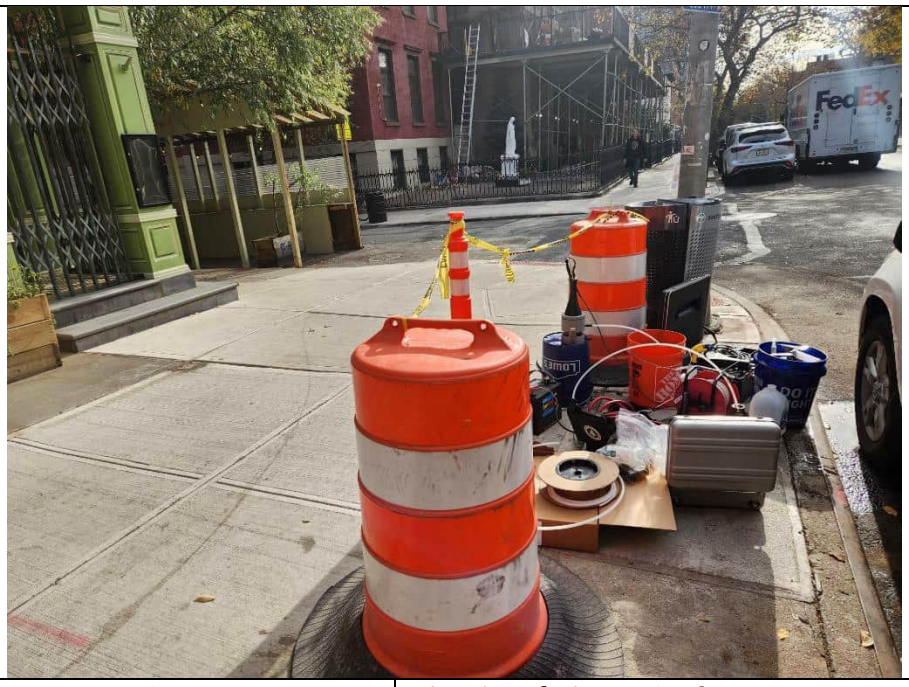


Photo No.:	29	**Direction of View:** South
Date:	11/19/2024	**Subject:** Groundwater sampling performed for monitoring well CLMW-03I.
Photographer:	Greg Mayer, E & E	



Photo No.:	30	**Direction of View:** West
Date:	11/20/2024	**Subject:** Groundwater sampling performed for monitoring well CLMW-06.
Photographer:	Greg Mayer, E & E	

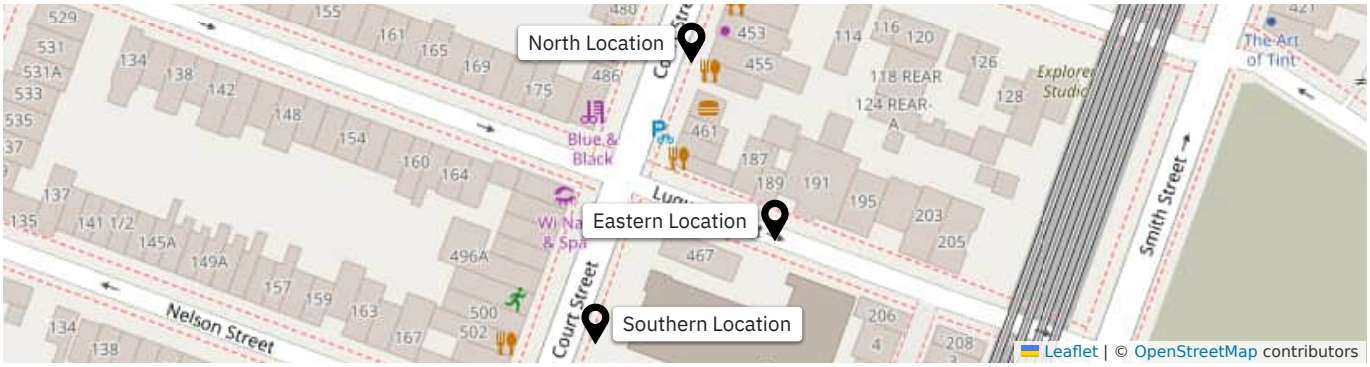
B

Community Air Monitoring Plan Air Monitoring Logs

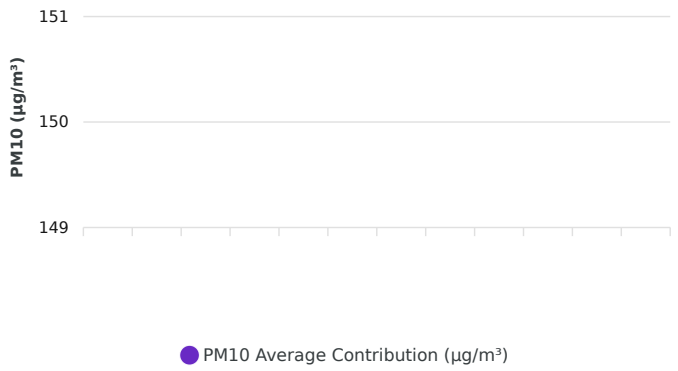
	Air Monitoring Report	Luquer Street Brooklyn	
		Report Period	
		From:	10/28/2024 07:00
		To:	10/28/2024 17:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
10/28/2024	-	-	-	-	-

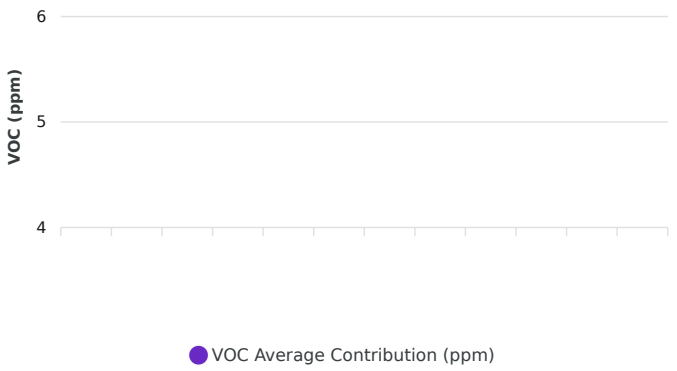
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 10/28/2024	-	-	-	-
Max Contribution (15 min avg.) - 10/28/2024	-	-	-	-



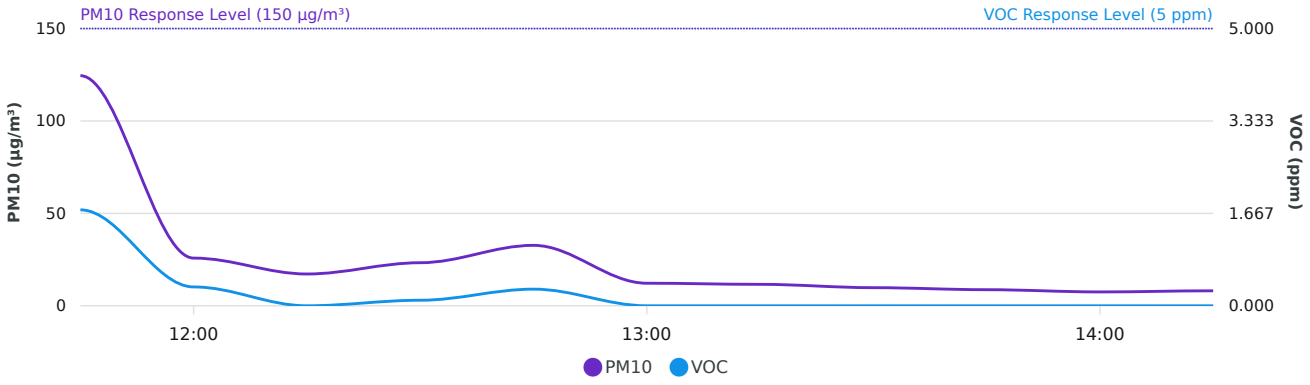
PM10 Average Contribution (µg/m³)



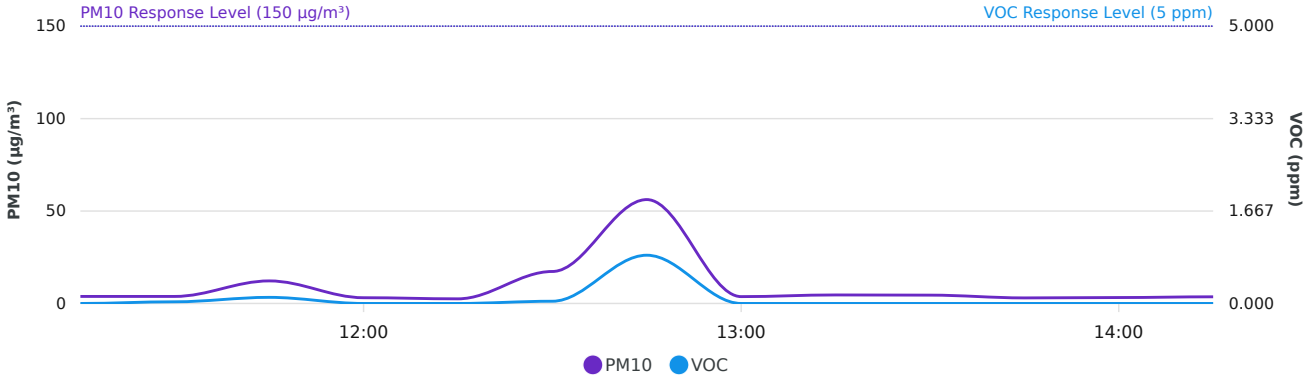
VOC Average Contribution (ppm)



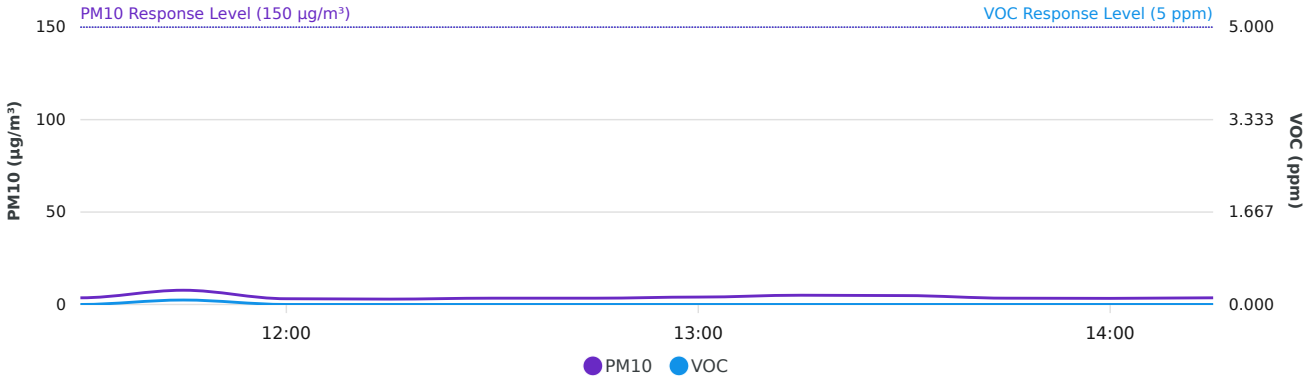
Eastern Location



North Location



Southern Location

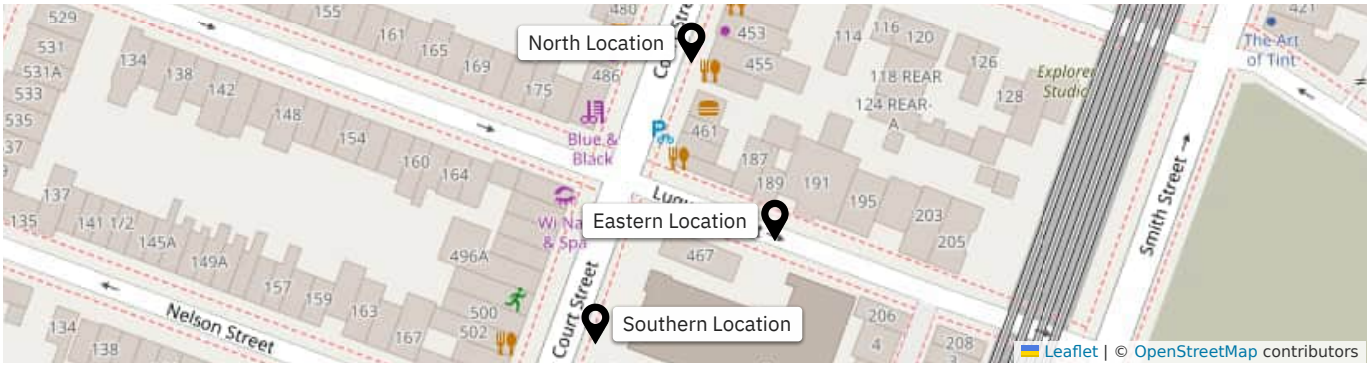


Date/Time	Eastern Location PM10 µg/m³	Eastern Location VOC ppm	North Location PM10 µg/m³	North Location VOC ppm	Southern Location PM10 µg/m³	Southern Location VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
28/10/2024 11:15			3.8	0.00						
28/10/2024 11:30			3.8	0.03	3.6	0.00				
28/10/2024 11:45	124.5	1.73	12.2	0.11	7.7	0.08				
28/10/2024 12:00	25.8	0.34	3.1	0.00	3.1	0.00				
28/10/2024 12:15	17.2	0.00	2.5	0.00	2.9	0.00				
28/10/2024 12:30	23.3	0.10	17.3	0.04	3.4	0.00				
28/10/2024 12:45	32.7	0.30	56.2	0.87	3.4	0.00				
28/10/2024 13:00	12.2	0.00	3.7	0.00	4.0	0.00				
28/10/2024 13:15	11.6	0.00	4.6	0.00	5.0	0.00				
28/10/2024 13:30	9.8	0.00	4.5	0.00	4.8	0.00				
28/10/2024 13:45	8.7	0.00	3.0	0.00	3.4	0.00				
28/10/2024 14:00	7.5	0.00	3.2	0.00	3.3	0.00				
28/10/2024 14:15	8.1	0.00	3.6	0.00	3.6	0.00				

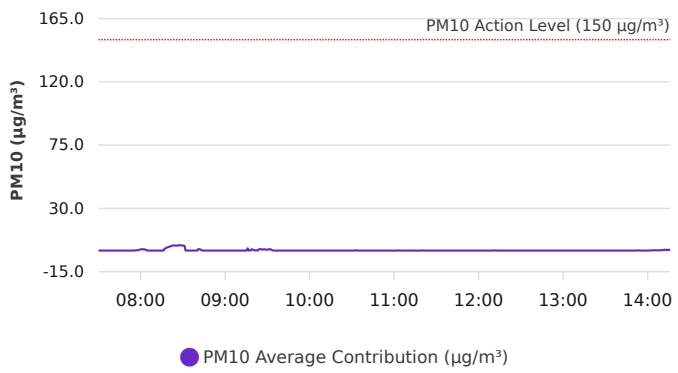
	Air Monitoring Report	Luquer Street Brooklyn	
		Report Period	
		From:	10/29/2024 07:00
		To:	10/29/2024 17:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
10/29/2024	53.2-68.4	56.2-73.2	30.4-30.5	0.2-6.1	SSW

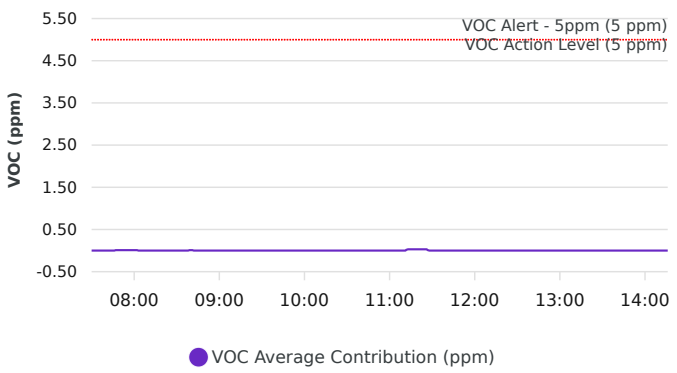
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 10/29/2024	0.0	07:30	0.00	07:30
Max Contribution (15 min avg.) - 10/29/2024	3.8	08:27	0.03	11:13



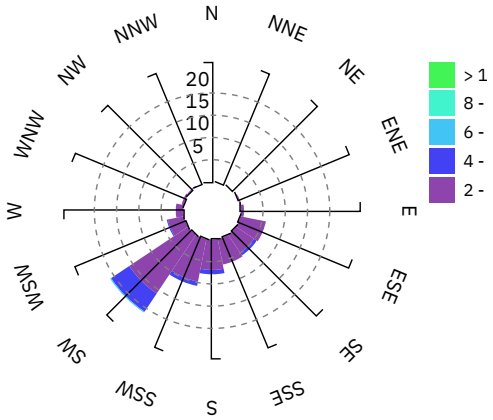
PM10 Average Contribution (µg/m³)



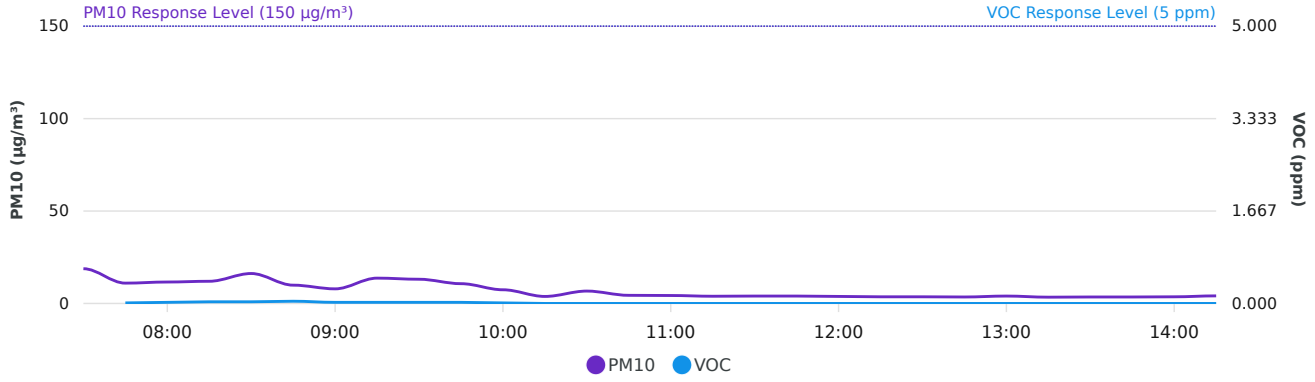
VOC Average Contribution (ppm)



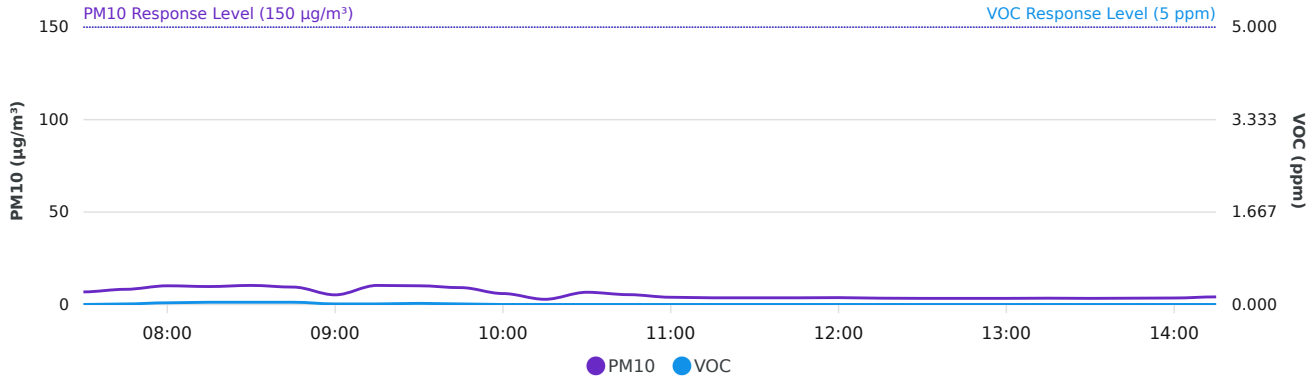
Contribution wind rose (mph)



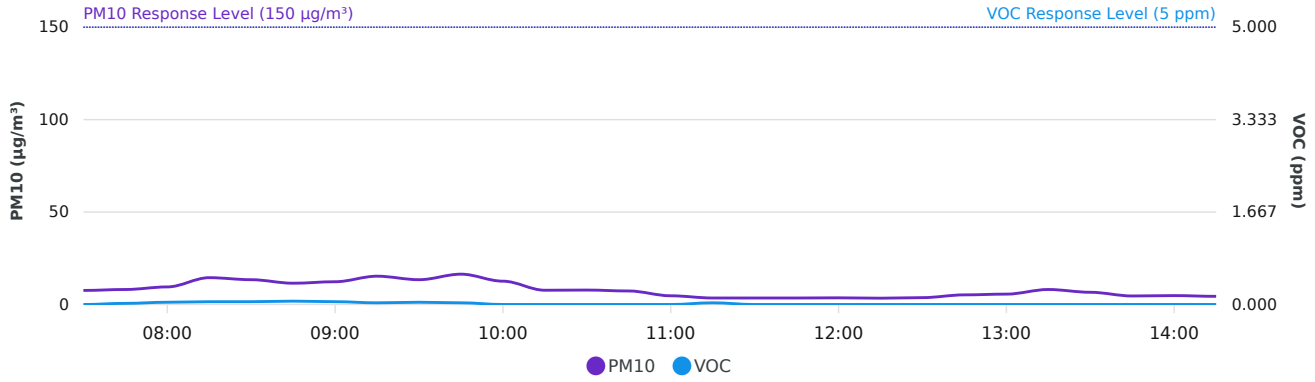
Eastern Location



North Location



Southern Location



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 07:30:00	18.8	7.7	0.0	0.00	0.00	0.00	1.1	ESE
10/29/2024 07:31:00	17.2	7.7	0.0	0.00	0.00	0.00	1.0	SE
10/29/2024 07:32:00	15.5	7.7	0.0	0.00	0.00	0.00	1.1	SE
10/29/2024 07:33:00	14.6	7.7	0.0	0.00	0.00	0.00	1.2	ESE
10/29/2024 07:34:00	14.0	7.6	0.0	0.00	0.00	0.00	1.2	E
10/29/2024 07:35:00	13.6	7.7	0.0	0.00	0.00	0.00	1.1	SE
10/29/2024 07:36:00	12.7	8.2	0.0	0.00	0.01	0.00	1.0	S
10/29/2024 07:37:00	12.2	8.3	0.0	0.01	0.01	0.00	0.9	S
10/29/2024 07:38:00	11.9	8.3	0.0	0.01	0.01	0.00	0.9	ESE
10/29/2024 07:39:00	11.5	8.4	0.0	0.01	0.01	0.00	0.9	SSE
10/29/2024 07:40:00	11.4	8.5	0.0	0.01	0.01	0.00	0.9	ESE
10/29/2024 07:41:00	11.3	8.5	0.0	0.01	0.02	0.00	0.9	SE
10/29/2024 07:42:00	11.3	8.5	0.0	0.01	0.02	0.00	0.9	SE
10/29/2024 07:43:00	11.2	8.7	0.0	0.01	0.02	0.00	0.9	ESE
10/29/2024 07:44:00	11.1	8.8	0.0	0.01	0.02	0.00	0.9	ESE
10/29/2024 07:45:00	10.6	8.8	0.0	0.02	0.02	0.00	0.9	ESE
10/29/2024 07:46:00	10.3	9.0	0.0	0.02	0.02	0.00	1.0	SE
10/29/2024 07:47:00	10.2	9.2	0.0	0.02	0.02	0.01	0.9	ESE
10/29/2024 07:48:00	10.4	9.5	0.0	0.02	0.03	0.01	0.9	SE
10/29/2024 07:49:00	10.3	9.8	0.0	0.02	0.03	0.01	0.8	NW
10/29/2024 07:50:00	10.2	10.1	0.0	0.02	0.03	0.01	0.7	NW
10/29/2024 07:51:00	10.4	10.2	0.0	0.02	0.03	0.01	0.7	WNW
10/29/2024 07:52:00	10.5	10.3	0.0	0.02	0.03	0.01	0.6	NW
10/29/2024 07:53:00	10.7	10.5	0.0	0.02	0.03	0.01	0.5	NW
10/29/2024 07:54:00	10.8	10.6	0.0	0.02	0.04	0.01	0.4	WNW
10/29/2024 07:55:00	10.7	10.7	0.0	0.03	0.04	0.01	0.3	WNW
10/29/2024 07:56:00	10.7	10.8	0.1	0.03	0.04	0.01	0.3	NW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 07:57:00	10.6	10.9	0.2	0.03	0.04	0.01	0.2	WNW
10/29/2024 07:58:00	10.6	10.9	0.3	0.03	0.04	0.01	0.1	WNW
10/29/2024 07:59:00	10.5	11.1	0.6	0.03	0.04	0.01	0.0	W
10/29/2024 08:00:00	10.5	11.3	0.8	0.03	0.04	0.01	0.1	NW
10/29/2024 08:01:00	10.5	11.5	1.0	0.03	0.04	0.01	0.3	WSW
10/29/2024 08:02:00	10.7	11.6	0.9	0.03	0.04	0.01	0.5	SW
10/29/2024 08:03:00	10.8	11.6	0.8	0.03	0.04	0.00	0.7	SW
10/29/2024 08:04:00	11.1	11.4	0.4	0.03	0.04	0.00	0.8	SW
10/29/2024 08:05:00	11.3	11.3	0.0	0.04	0.03	0.00	1.0	SW
10/29/2024 08:06:00	11.8	11.2	0.0	0.04	0.03	0.00	1.1	W
10/29/2024 08:07:00	12.2	11.2	0.0	0.04	0.03	0.00	1.2	W
10/29/2024 08:08:00	12.5	11.3	0.0	0.04	0.03	0.00	1.3	SW
10/29/2024 08:09:00	12.9	11.4	0.0	0.04	0.03	0.00	1.3	WSW
10/29/2024 08:10:00	13.1	11.6	0.0	0.04	0.03	0.00	1.4	W
10/29/2024 08:11:00	13.5	11.8	0.0	0.04	0.03	0.00	1.5	WSW
10/29/2024 08:12:00	14.0	11.9	0.0	0.04	0.04	0.00	1.6	W
10/29/2024 08:13:00	14.0	11.9	0.0	0.04	0.04	0.00	1.6	NW
10/29/2024 08:14:00	14.1	11.9	0.0	0.05	0.04	0.00	1.6	WNW
10/29/2024 08:15:00	14.3	12.0	0.0	0.05	0.04	0.00	1.6	W
10/29/2024 08:16:00	14.5	12.3	0.0	0.05	0.04	0.00	1.5	W
10/29/2024 08:17:00	14.9	16.1	1.2	0.05	0.04	0.00	1.6	WSW
10/29/2024 08:18:00	14.5	16.5	1.9	0.05	0.04	0.00	1.4	NW
10/29/2024 08:19:00	14.3	16.6	2.3	0.05	0.04	0.00	1.2	WNW
10/29/2024 08:20:00	14.1	16.7	2.6	0.05	0.04	0.00	1.2	WNW
10/29/2024 08:21:00	13.8	16.8	3.0	0.05	0.04	0.00	1.2	WSW
10/29/2024 08:22:00	13.4	16.8	3.4	0.05	0.04	0.00	1.1	WNW
10/29/2024 08:23:00	13.2	16.8	3.6	0.05	0.04	0.00	1.1	WSW
10/29/2024 08:24:00	13.0	16.7	3.7	0.05	0.04	0.00	1.2	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 08:25:00	13.1	16.7	3.5	0.05	0.04	0.00	1.3	SW
10/29/2024 08:26:00	13.1	16.6	3.5	0.05	0.04	0.00	1.4	WSW
10/29/2024 08:27:00	12.8	16.6	3.8	0.05	0.04	0.00	1.3	WSW
10/29/2024 08:28:00	12.9	16.6	3.8	0.05	0.04	0.00	1.3	SE
10/29/2024 08:29:00	12.8	16.5	3.7	0.05	0.04	0.00	1.2	SE
10/29/2024 08:30:00	12.7	16.3	3.6	0.04	0.04	0.00	1.1	ESE
10/29/2024 08:31:00	12.6	15.9	3.3	0.04	0.04	0.00	1.0	ESE
10/29/2024 08:32:00	11.9	11.9	0.0	0.04	0.04	0.00	0.7	ESE
10/29/2024 08:33:00	12.0	11.4	0.0	0.04	0.04	0.00	0.7	SE
10/29/2024 08:34:00	12.0	11.2	0.0	0.04	0.04	0.00	0.7	SE
10/29/2024 08:35:00	11.8	11.0	0.0	0.04	0.04	0.00	0.8	SSE
10/29/2024 08:36:00	11.5	10.9	0.0	0.04	0.04	0.00	0.8	SSW
10/29/2024 08:37:00	11.6	10.7	0.0	0.04	0.04	0.00	0.9	SW
10/29/2024 08:38:00	11.6	10.5	0.0	0.04	0.04	0.00	0.9	SW
10/29/2024 08:39:00	11.2	10.5	0.0	0.04	0.05	0.01	0.8	WNW
10/29/2024 08:40:00	10.9	10.5	0.0	0.04	0.05	0.01	0.7	WSW
10/29/2024 08:41:00	10.9	11.9	1.0	0.04	0.05	0.01	0.7	SW
10/29/2024 08:42:00	10.9	11.8	0.9	0.05	0.05	0.00	0.8	SSW
10/29/2024 08:43:00	11.1	11.5	0.4	0.05	0.05	0.00	0.8	SW
10/29/2024 08:44:00	11.4	11.4	0.0	0.05	0.05	0.00	0.8	SW
10/29/2024 08:45:00	11.5	11.3	0.0	0.05	0.05	0.00	0.9	SW
10/29/2024 08:46:00	11.7	11.1	0.0	0.06	0.05	0.00	1.0	WSW
10/29/2024 08:47:00	12.1	11.0	0.0	0.06	0.05	0.00	1.1	WSW
10/29/2024 08:48:00	12.4	10.9	0.0	0.06	0.04	0.00	1.2	SW
10/29/2024 08:49:00	12.5	10.7	0.0	0.06	0.04	0.00	1.4	SW
10/29/2024 08:50:00	12.6	10.6	0.0	0.06	0.04	0.00	1.5	SW
10/29/2024 08:51:00	12.8	10.4	0.0	0.06	0.04	0.00	1.6	SW
10/29/2024 08:52:00	12.8	10.3	0.0	0.06	0.04	0.00	1.7	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 08:53:00	12.7	10.1	0.0	0.06	0.04	0.00	1.8	SW
10/29/2024 08:54:00	13.1	9.8	0.0	0.06	0.03	0.00	2.0	SW
10/29/2024 08:55:00	13.1	9.6	0.0	0.06	0.03	0.00	2.1	SW
10/29/2024 08:56:00	12.9	8.0	0.0	0.06	0.03	0.00	2.1	SW
10/29/2024 08:57:00	12.7	7.9	0.0	0.05	0.02	0.00	2.3	SW
10/29/2024 08:58:00	12.6	8.0	0.0	0.05	0.02	0.00	2.4	SW
10/29/2024 08:59:00	12.4	7.9	0.0	0.05	0.02	0.00	2.6	SW
10/29/2024 09:00:00	12.3	7.9	0.0	0.05	0.02	0.00	2.6	WSW
10/29/2024 09:01:00	13.2	8.0	0.0	0.04	0.02	0.00	2.7	WSW
10/29/2024 09:02:00	12.7	9.4	0.0	0.04	0.02	0.00	2.7	WNW
10/29/2024 09:03:00	12.5	9.8	0.0	0.04	0.02	0.00	2.7	W
10/29/2024 09:04:00	13.0	10.0	0.0	0.04	0.02	0.00	2.9	SW
10/29/2024 09:05:00	12.9	10.7	0.0	0.04	0.02	0.00	2.8	NW
10/29/2024 09:06:00	12.7	11.1	0.0	0.04	0.02	0.00	2.5	NNE
10/29/2024 09:07:00	12.6	11.2	0.0	0.04	0.02	0.00	2.3	ESE
10/29/2024 09:08:00	12.6	11.5	0.0	0.03	0.02	0.00	2.1	ESE
10/29/2024 09:09:00	13.0	11.8	0.0	0.03	0.02	0.00	1.8	ESE
10/29/2024 09:10:00	12.9	12.2	0.0	0.03	0.02	0.00	1.8	SSW
10/29/2024 09:11:00	13.5	12.7	0.0	0.03	0.02	0.00	1.9	SW
10/29/2024 09:12:00	13.8	13.2	0.0	0.03	0.02	0.00	1.6	E
10/29/2024 09:13:00	13.9	13.6	0.0	0.02	0.02	0.00	1.6	WSW
10/29/2024 09:14:00	14.3	14.1	0.0	0.02	0.02	0.00	1.4	W
10/29/2024 09:15:00	14.3	14.4	0.0	0.02	0.02	0.00	1.2	W
10/29/2024 09:16:00	13.1	14.5	1.5	0.02	0.02	0.00	1.0	SW
10/29/2024 09:17:00	13.3	13.2	0.0	0.02	0.02	0.00	0.9	ENE
10/29/2024 09:18:00	12.8	13.1	0.2	0.02	0.02	0.00	0.7	N
10/29/2024 09:19:00	12.3	13.1	0.9	0.02	0.02	0.00	0.4	W
10/29/2024 09:20:00	12.3	12.8	0.5	0.02	0.02	0.00	0.5	NNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 09:21:00	12.6	12.7	0.2	0.02	0.02	0.00	0.6	WSW
10/29/2024 09:22:00	12.8	13.0	0.2	0.02	0.02	0.00	0.7	WNW
10/29/2024 09:23:00	13.1	13.2	0.1	0.02	0.02	0.00	0.8	WNW
10/29/2024 09:24:00	12.6	13.5	0.9	0.02	0.02	0.00	0.9	NW
10/29/2024 09:25:00	12.5	13.5	1.0	0.03	0.03	0.00	0.8	WNW
10/29/2024 09:26:00	12.3	13.2	0.9	0.03	0.03	0.00	0.9	WSW
10/29/2024 09:27:00	12.4	13.1	0.7	0.03	0.03	0.00	1.1	W
10/29/2024 09:28:00	12.2	13.2	0.9	0.03	0.03	0.00	1.1	WNW
10/29/2024 09:29:00	12.5	13.1	0.6	0.03	0.03	0.00	1.2	W
10/29/2024 09:30:00	12.6	13.3	0.7	0.03	0.03	0.00	1.3	NNW
10/29/2024 09:31:00	12.7	13.5	0.8	0.03	0.03	0.00	1.4	NW
10/29/2024 09:32:00	12.9	13.9	1.0	0.03	0.03	0.00	1.5	WNW
10/29/2024 09:33:00	13.4	13.9	0.5	0.04	0.03	0.00	1.6	WSW
10/29/2024 09:34:00	13.9	13.9	0.0	0.04	0.03	0.00	1.7	WNW
10/29/2024 09:35:00	14.4	13.7	0.0	0.04	0.03	0.00	1.8	W
10/29/2024 09:36:00	14.7	13.6	0.0	0.04	0.03	0.00	1.9	W
10/29/2024 09:37:00	15.0	13.4	0.0	0.04	0.03	0.00	1.9	WSW
10/29/2024 09:38:00	14.9	13.1	0.0	0.04	0.03	0.00	2.1	SW
10/29/2024 09:39:00	15.2	12.7	0.0	0.04	0.03	0.00	2.1	W
10/29/2024 09:40:00	15.5	12.3	0.0	0.04	0.03	0.00	2.2	WSW
10/29/2024 09:41:00	15.8	12.0	0.0	0.03	0.02	0.00	2.2	W
10/29/2024 09:42:00	15.2	12.6	0.0	0.03	0.02	0.00	2.1	NW
10/29/2024 09:43:00	15.7	12.2	0.0	0.03	0.02	0.00	2.2	WSW
10/29/2024 09:44:00	15.4	11.9	0.0	0.03	0.02	0.00	2.0	S
10/29/2024 09:45:00	15.1	11.6	0.0	0.03	0.02	0.00	2.0	NNW
10/29/2024 09:46:00	15.8	11.2	0.0	0.03	0.02	0.00	2.0	WSW
10/29/2024 09:47:00	16.1	11.0	0.0	0.02	0.02	0.00	2.2	SW
10/29/2024 09:48:00	16.0	10.8	0.0	0.02	0.02	0.00	2.2	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 09:49:00	15.7	10.7	0.0	0.02	0.02	0.00	2.3	SSW
10/29/2024 09:50:00	15.5	10.7	0.0	0.02	0.02	0.00	2.3	SW
10/29/2024 09:51:00	15.4	10.7	0.0	0.02	0.01	0.00	2.4	SSW
10/29/2024 09:52:00	15.3	10.7	0.0	0.02	0.01	0.00	2.4	SW
10/29/2024 09:53:00	15.6	10.7	0.0	0.01	0.01	0.00	2.3	SW
10/29/2024 09:54:00	15.2	10.5	0.0	0.01	0.01	0.00	2.4	SSW
10/29/2024 09:55:00	14.7	10.1	0.0	0.01	0.01	0.00	2.4	SW
10/29/2024 09:56:00	13.8	9.8	0.0	0.01	0.01	0.00	2.4	SSW
10/29/2024 09:57:00	13.8	8.7	0.0	0.01	0.01	0.00	2.6	SW
10/29/2024 09:58:00	13.2	8.3	0.0	0.01	0.01	0.00	2.6	SW
10/29/2024 09:59:00	12.7	7.9	0.0	0.00	0.01	0.00	2.6	S
10/29/2024 10:00:00	12.6	7.4	0.0	0.00	0.01	0.00	2.8	SW
10/29/2024 10:01:00	11.7	7.0	0.0	0.00	0.01	0.00	2.9	SSW
10/29/2024 10:02:00	10.8	6.6	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:03:00	10.2	6.2	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:04:00	9.9	5.7	0.0	0.00	0.00	0.00	3.1	SW
10/29/2024 10:05:00	9.4	5.3	0.0	0.00	0.00	0.00	3.1	S
10/29/2024 10:06:00	8.7	4.9	0.0	0.00	0.00	0.00	3.2	SW
10/29/2024 10:07:00	8.0	4.5	0.0	0.00	0.00	0.00	3.2	SW
10/29/2024 10:08:00	7.3	4.1	0.0	0.00	0.00	0.00	3.1	SSE
10/29/2024 10:09:00	7.0	3.9	0.0	0.00	0.00	0.00	3.1	SSW
10/29/2024 10:10:00	7.1	3.9	0.0	0.00	0.00	0.00	3.2	SW
10/29/2024 10:11:00	7.1	3.9	0.0	0.00	0.00	0.00	3.2	SW
10/29/2024 10:12:00	7.3	3.8	0.0	0.00	0.00	0.00	3.2	SSW
10/29/2024 10:13:00	7.3	3.8	0.0	0.00	0.00	0.00	3.2	SW
10/29/2024 10:14:00	7.5	3.8	0.0	0.00	0.00	0.00	3.3	SW
10/29/2024 10:15:00	7.7	3.8	0.0	0.00	0.00	0.00	3.2	WSW
10/29/2024 10:16:00	7.7	3.8	0.0	0.00	0.00	0.00	3.3	WSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 10:17:00	7.8	4.1	0.0	0.00	0.00	0.00	3.3	SSW
10/29/2024 10:18:00	8.8	4.5	0.0	0.00	0.00	0.00	3.1	SE
10/29/2024 10:19:00	8.7	6.3	0.0	0.00	0.00	0.00	3.0	SSE
10/29/2024 10:20:00	8.7	6.5	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:21:00	9.1	6.7	0.0	0.00	0.00	0.00	2.9	SW
10/29/2024 10:22:00	9.3	6.8	0.0	0.00	0.00	0.00	2.8	SW
10/29/2024 10:23:00	9.3	7.0	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:24:00	9.4	7.1	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:25:00	9.3	7.4	0.0	0.00	0.00	0.00	2.9	S
10/29/2024 10:26:00	9.2	7.6	0.0	0.00	0.00	0.00	2.9	SW
10/29/2024 10:27:00	8.9	7.8	0.0	0.00	0.00	0.00	2.9	SW
10/29/2024 10:28:00	8.7	8.0	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:29:00	8.7	8.2	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:30:00	8.6	8.3	0.0	0.00	0.00	0.00	3.0	SSW
10/29/2024 10:31:00	8.4	8.4	0.0	0.00	0.00	0.00	3.0	SSW
10/29/2024 10:32:00	8.4	8.2	0.0	0.00	0.00	0.00	2.8	SSW
10/29/2024 10:33:00	7.7	8.0	0.3	0.00	0.00	0.00	2.9	SW
10/29/2024 10:34:00	7.8	6.4	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:35:00	7.8	6.3	0.0	0.00	0.00	0.00	2.8	SW
10/29/2024 10:36:00	7.8	6.3	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:37:00	7.6	6.3	0.0	0.00	0.00	0.00	3.0	S
10/29/2024 10:38:00	7.5	6.3	0.0	0.00	0.00	0.00	3.0	SSW
10/29/2024 10:39:00	7.6	6.3	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:40:00	7.7	6.2	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:41:00	7.9	6.0	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 10:42:00	8.0	5.8	0.0	0.00	0.00	0.00	3.0	S
10/29/2024 10:43:00	7.8	5.7	0.0	0.00	0.00	0.00	2.8	SE
10/29/2024 10:44:00	7.4	5.6	0.0	0.00	0.00	0.00	2.8	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 10:45:00	7.2	5.5	0.0	0.00	0.00	0.00	2.8	SSW
10/29/2024 10:46:00	7.2	5.5	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:47:00	7.2	5.4	0.0	0.00	0.00	0.00	3.1	SW
10/29/2024 10:48:00	7.0	5.3	0.0	0.00	0.00	0.00	3.2	S
10/29/2024 10:49:00	6.8	5.2	0.0	0.00	0.00	0.00	3.0	ESE
10/29/2024 10:50:00	6.6	5.1	0.0	0.00	0.00	0.00	3.0	S
10/29/2024 10:51:00	6.2	5.1	0.0	0.00	0.00	0.00	3.0	SSE
10/29/2024 10:52:00	6.1	4.9	0.0	0.00	0.00	0.00	2.9	SSW
10/29/2024 10:53:00	5.9	4.9	0.0	0.00	0.00	0.00	2.9	SE
10/29/2024 10:54:00	5.8	4.8	0.0	0.00	0.00	0.00	3.0	S
10/29/2024 10:55:00	5.4	4.7	0.0	0.00	0.00	0.00	2.8	SE
10/29/2024 10:56:00	5.1	4.7	0.0	0.00	0.00	0.00	2.9	S
10/29/2024 10:57:00	5.0	4.6	0.0	0.00	0.00	0.00	2.8	S
10/29/2024 10:58:00	4.9	4.5	0.0	0.00	0.00	0.00	2.9	SSE
10/29/2024 10:59:00	4.8	4.5	0.0	0.00	0.00	0.00	2.9	SSE
10/29/2024 11:00:00	4.7	4.4	0.0	0.00	0.00	0.00	2.7	SE
10/29/2024 11:01:00	4.5	4.4	0.0	0.00	0.00	0.00	2.6	SSW
10/29/2024 11:02:00	4.3	4.3	0.0	0.00	0.00	0.00	2.7	S
10/29/2024 11:03:00	4.1	4.3	0.1	0.00	0.00	0.00	2.6	SSW
10/29/2024 11:04:00	4.2	4.2	0.0	0.00	0.00	0.00	2.6	S
10/29/2024 11:05:00	4.1	4.1	0.0	0.00	0.00	0.00	2.6	SE
10/29/2024 11:06:00	4.0	4.0	0.0	0.00	0.00	0.00	2.5	SSE
10/29/2024 11:07:00	3.9	4.0	0.0	0.00	0.00	0.00	2.4	ESE
10/29/2024 11:08:00	3.9	3.9	0.0	0.00	0.00	0.00	2.2	SE
10/29/2024 11:09:00	3.9	3.8	0.0	0.00	0.00	0.00	2.1	ESE
10/29/2024 11:10:00	3.9	3.9	0.0	0.00	0.00	0.00	2.0	SSW
10/29/2024 11:11:00	3.8	3.8	0.0	0.00	0.00	0.00	1.9	ESE
10/29/2024 11:12:00	3.8	3.8	0.1	0.00	0.02	0.02	1.8	SE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 11:13:00	3.7	3.8	0.0	0.00	0.03	0.03	1.8	SE
10/29/2024 11:14:00	3.8	3.7	0.0	0.00	0.03	0.03	1.8	SSE
10/29/2024 11:15:00	3.8	3.7	0.0	0.00	0.03	0.03	1.7	SE
10/29/2024 11:16:00	3.8	3.7	0.0	0.00	0.03	0.03	1.7	SSE
10/29/2024 11:17:00	3.8	3.7	0.0	0.00	0.03	0.03	1.6	SSE
10/29/2024 11:18:00	3.8	3.7	0.0	0.00	0.03	0.03	1.6	SSE
10/29/2024 11:19:00	3.7	3.7	0.0	0.00	0.03	0.03	1.7	SE
10/29/2024 11:20:00	3.6	3.7	0.1	0.00	0.03	0.03	1.7	S
10/29/2024 11:21:00	3.7	3.7	0.0	0.00	0.03	0.03	1.7	SE
10/29/2024 11:22:00	3.7	3.7	0.0	0.00	0.03	0.03	1.6	SE
10/29/2024 11:23:00	3.8	3.7	0.0	0.00	0.03	0.03	1.6	ESE
10/29/2024 11:24:00	3.7	3.7	0.0	0.00	0.03	0.03	1.6	SE
10/29/2024 11:25:00	3.8	3.6	0.0	0.00	0.03	0.03	1.7	SE
10/29/2024 11:26:00	3.8	3.6	0.0	0.00	0.03	0.03	1.7	ESE
10/29/2024 11:27:00	3.8	3.6	0.0	0.00	0.01	0.01	1.8	ESE
10/29/2024 11:28:00	3.8	3.7	0.0	0.00	0.00	0.00	1.9	SSE
10/29/2024 11:29:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	S
10/29/2024 11:30:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	S
10/29/2024 11:31:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	E
10/29/2024 11:32:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	ESE
10/29/2024 11:33:00	3.9	3.7	0.0	0.00	0.00	0.00	2.2	ESE
10/29/2024 11:34:00	3.9	3.7	0.0	0.00	0.00	0.00	2.3	ESE
10/29/2024 11:35:00	3.9	3.6	0.0	0.00	0.00	0.00	2.4	SSE
10/29/2024 11:36:00	3.9	3.6	0.0	0.00	0.00	0.00	2.5	SE
10/29/2024 11:37:00	3.8	3.6	0.0	0.00	0.00	0.00	2.6	SE
10/29/2024 11:38:00	3.9	3.8	0.0	0.00	0.00	0.00	2.7	ESE
10/29/2024 11:39:00	4.1	3.9	0.0	0.00	0.00	0.00	2.6	SE
10/29/2024 11:40:00	4.1	4.0	0.0	0.00	0.00	0.00	2.5	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 11:41:00	4.0	3.9	0.0	0.00	0.00	0.00	2.5	SE
10/29/2024 11:42:00	4.0	3.9	0.0	0.00	0.00	0.00	2.6	SSE
10/29/2024 11:43:00	3.9	3.9	0.0	0.00	0.00	0.00	2.4	S
10/29/2024 11:44:00	3.9	3.9	0.0	0.00	0.00	0.00	2.4	ESE
10/29/2024 11:45:00	3.9	3.8	0.0	0.00	0.00	0.00	2.4	SSE
10/29/2024 11:46:00	3.9	3.8	0.0	0.00	0.00	0.00	2.4	ESE
10/29/2024 11:47:00	4.0	3.8	0.0	0.00	0.00	0.00	2.5	ESE
10/29/2024 11:48:00	3.9	3.9	0.0	0.00	0.00	0.00	2.5	ESE
10/29/2024 11:49:00	3.9	3.9	0.0	0.00	0.00	0.00	2.3	SE
10/29/2024 11:50:00	3.9	3.9	0.0	0.00	0.00	0.00	2.2	ESE
10/29/2024 11:51:00	3.9	3.9	0.0	0.00	0.00	0.00	2.2	SSE
10/29/2024 11:52:00	4.0	4.0	0.0	0.00	0.00	0.00	2.1	E
10/29/2024 11:53:00	3.9	3.8	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 11:54:00	3.8	3.7	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 11:55:00	3.8	3.7	0.0	0.00	0.00	0.00	2.2	ESE
10/29/2024 11:56:00	3.8	3.7	0.0	0.00	0.00	0.00	2.2	ESE
10/29/2024 11:57:00	3.8	3.7	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 11:58:00	3.8	3.7	0.0	0.00	0.00	0.00	2.0	S
10/29/2024 11:59:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	ESE
10/29/2024 12:00:00	3.8	3.8	0.0	0.00	0.00	0.00	2.2	SE
10/29/2024 12:01:00	3.8	3.7	0.0	0.00	0.00	0.00	2.2	SSE
10/29/2024 12:02:00	3.7	3.7	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 12:03:00	3.7	3.7	0.0	0.00	0.00	0.00	1.9	S
10/29/2024 12:04:00	3.8	3.7	0.0	0.00	0.00	0.00	2.0	S
10/29/2024 12:05:00	3.8	3.7	0.0	0.00	0.00	0.00	2.1	S
10/29/2024 12:06:00	3.8	3.7	0.0	0.00	0.00	0.00	2.0	S
10/29/2024 12:07:00	3.6	3.7	0.0	0.00	0.00	0.00	2.1	SSW
10/29/2024 12:08:00	3.6	3.6	0.0	0.00	0.00	0.00	2.1	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 12:09:00	3.5	3.6	0.0	0.00	0.00	0.00	2.2	SSE
10/29/2024 12:10:00	3.5	3.6	0.0	0.00	0.00	0.00	2.3	SSE
10/29/2024 12:11:00	3.5	3.6	0.1	0.00	0.00	0.00	2.5	SSE
10/29/2024 12:12:00	3.5	3.6	0.1	0.00	0.00	0.00	2.6	SSW
10/29/2024 12:13:00	3.6	3.6	0.0	0.00	0.00	0.00	2.6	SSE
10/29/2024 12:14:00	3.5	3.6	0.0	0.00	0.00	0.00	2.6	SSE
10/29/2024 12:15:00	3.5	3.5	0.0	0.00	0.00	0.00	2.7	SE
10/29/2024 12:16:00	3.6	3.5	0.0	0.00	0.00	0.00	2.6	S
10/29/2024 12:17:00	3.6	3.6	0.0	0.00	0.00	0.00	2.6	SE
10/29/2024 12:18:00	3.6	3.5	0.0	0.00	0.00	0.00	2.7	SSE
10/29/2024 12:19:00	3.6	3.6	0.0	0.00	0.00	0.00	2.7	SSW
10/29/2024 12:20:00	3.7	3.5	0.0	0.00	0.00	0.00	2.6	S
10/29/2024 12:21:00	3.7	3.5	0.0	0.00	0.00	0.00	2.6	S
10/29/2024 12:22:00	3.7	3.5	0.0	0.00	0.00	0.00	2.6	S
10/29/2024 12:23:00	3.7	3.5	0.0	0.00	0.00	0.00	2.5	ESE
10/29/2024 12:24:00	3.7	3.5	0.0	0.00	0.00	0.00	2.4	SSE
10/29/2024 12:25:00	3.7	3.5	0.0	0.00	0.00	0.00	2.3	SE
10/29/2024 12:26:00	3.8	3.5	0.0	0.00	0.00	0.00	2.3	SE
10/29/2024 12:27:00	3.8	3.5	0.0	0.00	0.00	0.00	2.2	S
10/29/2024 12:28:00	3.8	3.5	0.0	0.00	0.00	0.00	2.1	SE
10/29/2024 12:29:00	3.8	3.5	0.0	0.00	0.00	0.00	2.1	SSE
10/29/2024 12:30:00	3.8	3.5	0.0	0.00	0.00	0.00	2.2	SSW
10/29/2024 12:31:00	3.8	3.6	0.0	0.00	0.00	0.00	2.3	S
10/29/2024 12:32:00	3.8	3.5	0.0	0.00	0.00	0.00	2.3	ESE
10/29/2024 12:33:00	3.7	3.5	0.0	0.00	0.00	0.00	2.4	S
10/29/2024 12:34:00	3.7	3.5	0.0	0.00	0.00	0.00	2.3	SSW
10/29/2024 12:35:00	3.8	3.6	0.0	0.00	0.00	0.00	2.3	S
10/29/2024 12:36:00	3.8	3.6	0.0	0.00	0.00	0.00	2.4	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 12:37:00	3.9	3.6	0.0	0.00	0.00	0.00	2.4	S
10/29/2024 12:38:00	4.0	3.6	0.0	0.00	0.00	0.00	2.3	SW
10/29/2024 12:39:00	4.2	3.6	0.0	0.00	0.00	0.00	2.3	WSW
10/29/2024 12:40:00	4.5	3.6	0.0	0.00	0.00	0.00	2.3	SW
10/29/2024 12:41:00	4.6	3.6	0.0	0.00	0.00	0.00	2.3	SSW
10/29/2024 12:42:00	4.7	3.6	0.0	0.00	0.00	0.00	2.4	SSW
10/29/2024 12:43:00	4.8	3.6	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 12:44:00	4.9	3.6	0.0	0.00	0.00	0.00	2.5	SSW
10/29/2024 12:45:00	5.2	3.5	0.0	0.00	0.00	0.00	2.5	SSW
10/29/2024 12:46:00	5.3	3.5	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 12:47:00	5.4	3.5	0.0	0.00	0.00	0.00	2.7	SW
10/29/2024 12:48:00	5.5	3.5	0.0	0.00	0.00	0.00	2.7	SW
10/29/2024 12:49:00	5.3	3.6	0.0	0.00	0.00	0.00	2.6	ESE
10/29/2024 12:50:00	5.2	3.7	0.0	0.00	0.00	0.00	2.4	ESE
10/29/2024 12:51:00	5.7	3.7	0.0	0.00	0.00	0.00	2.4	SE
10/29/2024 12:52:00	5.9	3.8	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 12:53:00	5.9	3.8	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 12:54:00	5.9	3.8	0.0	0.00	0.00	0.00	2.6	SSW
10/29/2024 12:55:00	5.9	3.8	0.0	0.00	0.00	0.00	2.8	SW
10/29/2024 12:56:00	5.9	3.8	0.0	0.00	0.00	0.00	2.7	WSW
10/29/2024 12:57:00	6.0	3.8	0.0	0.00	0.00	0.00	2.7	SW
10/29/2024 12:58:00	5.9	3.9	0.0	0.00	0.00	0.00	2.5	SE
10/29/2024 12:59:00	5.8	3.9	0.0	0.00	0.00	0.00	2.5	SSW
10/29/2024 13:00:00	5.8	3.9	0.0	0.00	0.00	0.00	2.5	WSW
10/29/2024 13:01:00	5.9	3.9	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 13:02:00	5.9	3.9	0.0	0.00	0.00	0.00	2.5	SSW
10/29/2024 13:03:00	5.9	3.9	0.0	0.00	0.00	0.00	2.5	SW
10/29/2024 13:04:00	6.2	3.9	0.0	0.00	0.00	0.00	2.7	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 13:05:00	6.5	3.7	0.0	0.00	0.00	0.00	3.0	SW
10/29/2024 13:06:00	6.2	3.7	0.0	0.00	0.00	0.00	3.3	SW
10/29/2024 13:07:00	6.7	3.6	0.0	0.00	0.00	0.00	3.4	SW
10/29/2024 13:08:00	7.8	3.6	0.0	0.00	0.00	0.00	3.5	SW
10/29/2024 13:09:00	8.6	3.6	0.0	0.00	0.00	0.00	3.7	SW
10/29/2024 13:10:00	8.4	3.6	0.0	0.00	0.00	0.00	3.6	SW
10/29/2024 13:11:00	8.3	3.6	0.0	0.00	0.00	0.00	3.7	SW
10/29/2024 13:12:00	8.2	3.6	0.0	0.00	0.00	0.00	3.8	SW
10/29/2024 13:13:00	8.3	3.5	0.0	0.00	0.00	0.00	4.1	SW
10/29/2024 13:14:00	8.3	3.5	0.0	0.00	0.00	0.00	4.2	SSW
10/29/2024 13:15:00	8.1	3.5	0.0	0.00	0.00	0.00	4.4	SW
10/29/2024 13:16:00	7.9	3.5	0.0	0.00	0.00	0.00	4.6	SW
10/29/2024 13:17:00	7.8	3.5	0.0	0.00	0.00	0.00	4.7	SW
10/29/2024 13:18:00	7.9	3.4	0.0	0.00	0.00	0.00	4.7	SW
10/29/2024 13:19:00	7.8	3.4	0.0	0.00	0.00	0.00	4.6	SSW
10/29/2024 13:20:00	7.7	3.5	0.0	0.00	0.00	0.00	4.6	SW
10/29/2024 13:21:00	7.7	3.5	0.0	0.00	0.00	0.00	4.6	SW
10/29/2024 13:22:00	7.3	3.5	0.0	0.00	0.00	0.00	4.4	WSW
10/29/2024 13:23:00	6.4	3.5	0.0	0.00	0.00	0.00	4.4	SW
10/29/2024 13:24:00	5.7	3.5	0.0	0.00	0.00	0.00	4.2	SW
10/29/2024 13:25:00	5.8	3.5	0.0	0.00	0.00	0.00	4.1	SW
10/29/2024 13:26:00	6.0	3.5	0.0	0.00	0.00	0.00	4.1	SW
10/29/2024 13:27:00	6.0	3.5	0.0	0.00	0.00	0.00	4.1	SW
10/29/2024 13:28:00	6.2	3.5	0.0	0.00	0.00	0.00	3.9	SSW
10/29/2024 13:29:00	6.4	3.5	0.0	0.00	0.00	0.00	3.8	SW
10/29/2024 13:30:00	6.6	3.5	0.0	0.00	0.00	0.00	3.5	S
10/29/2024 13:31:00	6.8	3.5	0.0	0.00	0.00	0.00	3.2	WSW
10/29/2024 13:32:00	7.0	3.6	0.0	0.00	0.00	0.00	2.9	W

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 13:33:00	6.8	3.8	0.0	0.00	0.00	0.00	2.7	SE
10/29/2024 13:34:00	6.7	3.8	0.0	0.00	0.00	0.00	2.6	SE
10/29/2024 13:35:00	6.6	3.8	0.0	0.00	0.00	0.00	2.5	SSW
10/29/2024 13:36:00	6.5	3.8	0.0	0.00	0.00	0.00	2.4	S
10/29/2024 13:37:00	6.2	3.8	0.0	0.00	0.00	0.00	2.2	ESE
10/29/2024 13:38:00	5.9	3.7	0.0	0.00	0.00	0.00	2.0	ESE
10/29/2024 13:39:00	5.6	3.7	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 13:40:00	5.4	3.7	0.0	0.00	0.00	0.00	2.0	SW
10/29/2024 13:41:00	5.1	3.7	0.0	0.00	0.00	0.00	1.9	S
10/29/2024 13:42:00	5.1	3.7	0.0	0.00	0.00	0.00	2.0	SSW
10/29/2024 13:43:00	4.8	3.8	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 13:44:00	4.5	3.9	0.0	0.00	0.00	0.00	1.9	E
10/29/2024 13:45:00	4.3	3.9	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 13:46:00	4.1	3.9	0.0	0.00	0.00	0.00	2.1	SSW
10/29/2024 13:47:00	3.9	3.9	0.0	0.00	0.00	0.00	2.3	S
10/29/2024 13:48:00	3.9	3.7	0.0	0.00	0.00	0.00	2.1	SE
10/29/2024 13:49:00	4.1	3.8	0.0	0.00	0.00	0.00	2.1	SSW
10/29/2024 13:50:00	4.1	3.9	0.0	0.00	0.00	0.00	2.0	SE
10/29/2024 13:51:00	3.9	3.9	0.0	0.00	0.00	0.00	1.9	ESE
10/29/2024 13:52:00	3.9	3.9	0.0	0.00	0.00	0.00	1.9	SE
10/29/2024 13:53:00	3.8	4.0	0.1	0.00	0.00	0.00	1.7	ENE
10/29/2024 13:54:00	3.9	4.0	0.1	0.00	0.00	0.00	1.6	SW
10/29/2024 13:55:00	4.0	4.0	0.0	0.00	0.00	0.00	1.7	SSE
10/29/2024 13:56:00	4.1	4.0	0.0	0.00	0.00	0.00	1.5	WSW
10/29/2024 13:57:00	4.2	4.0	0.0	0.00	0.00	0.00	1.4	SSW
10/29/2024 13:58:00	4.3	4.1	0.0	0.00	0.00	0.00	1.5	SE
10/29/2024 13:59:00	4.3	4.0	0.0	0.00	0.00	0.00	1.5	ESE
10/29/2024 14:00:00	4.4	4.0	0.0	0.00	0.00	0.00	1.4	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/29/2024 14:01:00	4.4	4.2	0.0	0.00	0.00	0.00	1.3	SSE
10/29/2024 14:02:00	4.4	4.6	0.1	0.00	0.00	0.00	1.3	E
10/29/2024 14:03:00	4.6	4.8	0.1	0.00	0.00	0.00	1.4	SSE
10/29/2024 14:04:00	4.6	4.9	0.3	0.00	0.00	0.00	1.4	ESE
10/29/2024 14:05:00	4.5	4.8	0.2	0.00	0.00	0.00	1.5	SSE
10/29/2024 14:06:00	4.5	4.8	0.2	0.00	0.00	0.00	1.5	SE
10/29/2024 14:07:00	4.6	4.8	0.2	0.00	0.00	0.00	1.7	SE
10/29/2024 14:08:00	4.6	4.8	0.2	0.00	0.00	0.00	1.9	SE
10/29/2024 14:09:00	4.5	4.8	0.2	0.00	0.00	0.00	2.1	SSE
10/29/2024 14:10:00	4.4	4.7	0.3	0.00	0.00	0.00	2.0	SSW
10/29/2024 14:11:00	4.4	4.8	0.4	0.00	0.00	0.00	2.1	SSE
10/29/2024 14:12:00	4.2	4.8	0.6	0.00	0.00	0.00	2.2	S
10/29/2024 14:13:00	4.2	4.6	0.5	0.00	0.00	0.00	2.2	SE
10/29/2024 14:14:00	4.2	4.6	0.4	0.00	0.00	0.00	2.4	SE
10/29/2024 14:15:00	4.1	4.7	0.6	0.00	0.00	0.00	2.4	SW
10/29/2024 14:16:00	4.1	4.5	0.4	0.00	0.00	0.00	2.5	SSE
10/29/2024 14:17:00							2.5	ESE

Date/Time	Eastern Location PM10 µg/m³	Eastern Location VOC ppm	North Location PM10 µg/m³	North Location VOC ppm	Southern Location PM10 µg/m³	Southern Location VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
29/10/2024 07:30	18.8		6.8	0.00	7.6	0.00	ESE	1.1	Southern Location (VOC); Eastern Location (PM10)	North Location (PM10; VOC); Southern Location (PM10)
29/10/2024 07:45	11.0	0.01	8.2	0.01	8.1	0.02	SE	0.9	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)
29/10/2024 08:00	11.6	0.02	10.1	0.03	9.5	0.04	WNW	0.1	Southern Location (PM10; VOC)	Eastern Location (PM10; VOC); North Location (PM10; VOC)
29/10/2024 08:15	12.0	0.03	9.7	0.04	14.5	0.05	WSW	1.6	Southern Location (PM10; VOC)	Eastern Location (PM10; VOC); North Location (PM10; VOC)
29/10/2024 08:30	16.2	0.03	10.3	0.04	13.4	0.05	WSW	1.1	Southern Location (PM10; VOC)	Eastern Location (PM10; VOC); North Location (PM10; VOC)
29/10/2024 08:45	9.9	0.04	9.4	0.04	11.5	0.06	SSW	0.9	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 09:00	7.9	0.02	5.2	0.01	12.3	0.05	SW	2.6	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 09:15	13.7	0.02	10.3	0.01	15.3	0.03	SW	1.2	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 09:30	13.1	0.02	10.1	0.02	13.4	0.04	WNW	1.3	Southern Location (PM10; VOC)	Eastern Location (PM10; VOC); North Location (PM10; VOC)
29/10/2024 09:45	10.7	0.02	9.1	0.01	16.4	0.03	WSW	2.0	Southern Location (PM10; VOC)	Eastern Location (PM10; VOC); North Location (PM10; VOC)
29/10/2024 10:00	7.4	0.01	5.9	0.00	12.6	0.00	SW	2.8	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 10:15	3.8	0.00	2.8	0.00	7.7	0.00	SW	3.2	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 10:30	6.7	0.00	6.6	0.00	7.8	0.00	SSW	3.0	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 10:45	4.4	0.00	5.3	0.00	7.3	0.00	SSW	2.8	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 11:00	4.3	0.00	3.9	0.00	4.7	0.00	S	2.7	Southern Location (PM10; VOC)	North Location (PM10; VOC);

Date/Time	Eastern Location PM10 µg/m³	Eastern Location VOC ppm	North Location PM10 µg/m³	North Location VOC ppm	Southern Location PM10 µg/m³	Southern Location VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
										Eastern Location (PM10; VOC)
29/10/2024 11:15	3.9	0.00	3.6	0.00	3.5	0.03	SSE	1.7	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)
29/10/2024 11:30	4.0	0.00	3.6	0.00	3.5	0.00	SE	2.1	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)
29/10/2024 11:45	4.0	0.00	3.6	0.00	3.5	0.00	SE	2.4	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)
29/10/2024 12:00	3.8	0.00	3.7	0.00	3.6	0.00	SE	2.2	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)
29/10/2024 12:15	3.6	0.00	3.4	0.00	3.4	0.00	S	2.7	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 12:30	3.6	0.00	3.3	0.00	3.7	0.00	SSE	2.2	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 12:45	3.5	0.00	3.3	0.00	5.2	0.00	SSW	2.5	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 13:00	4.0	0.00	3.3	0.00	5.6	0.00	SSW	2.5	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 13:15	3.4	0.00	3.4	0.00	8.1	0.00	SW	4.4	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 13:30	3.5	0.00	3.3	0.00	6.6	0.00	SW	3.5	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 13:45	3.5	0.00	3.4	0.00	4.6	0.00	SSE	2.0	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 14:00	3.6	0.00	3.5	0.00	4.8	0.00	SSE	1.4	Southern Location (PM10; VOC)	North Location (PM10; VOC); Eastern Location (PM10; VOC)
29/10/2024 14:15	4.1	0.00	4.1	0.00	4.4	0.00	SSE	2.4	Eastern Location (PM10; VOC)	North Location (PM10; VOC); Southern Location (PM10; VOC)

WSP · Luquer Street Brooklyn · 2317 (AQS1 19052023-2317)
Instrument Data export
10/30/2024 to 10/30/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/m³)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 8:54		10.4	0.3	72	1032.8	17.3	66.4	40.677101	-73.998497	47.8	187.9	13.254
10/30/2024 8:55	0	9.54	0.6	185.2	1032.7	17.2	66.3	40.677101	-73.998497	47.7	188.5	13.219
10/30/2024 8:56	0	11.56	0.15	21.2	1032.6	16.9	66.4	40.677101	-73.998497	46.5	188.8	13.184
10/30/2024 8:57												
10/30/2024 8:58												
10/30/2024 8:59												
10/30/2024 9:00												
10/30/2024 9:01	0.4	60.96	0.44	217.4	1030.1	16.3	67.7	40.677101	-73.998497	27	187.4	13.137
10/30/2024 9:02	0.36	29.49	0.67	287.1	1030	16.1	67.7	40.677101	-73.998497	26.6	188.7	13.128
10/30/2024 9:03	0.15	12.25	0.41	287.7	1029.7	16	67.7	40.677101	-73.998497	24.1	187.7	13.131
10/30/2024 9:04	0.01	28.09	0.61	17.5	1029.8	16	68	40.677101	-73.998497	25.2	187.9	13.137
10/30/2024 9:05	0.07	32.75	0.32	341	1030.3	16	68.1	40.677101	-73.998497	29.5	187.2	13.137
10/30/2024 9:06	0.18	12.83	0.3	59.4	1030.4	16	67.9	40.677101	-73.998398	29.7	187.4	13.131
10/30/2024 9:07	0.09	8.48	0.43	211.4	1030.2	15.9	68.1	40.677101	-73.998497	28.4	187.2	13.119
10/30/2024 9:08	0.01	7.45	0.52	140.4	1030.3	15.9	68.1	40.677101	-73.998398	29.3	187.4	13.116
10/30/2024 9:09	0.01	7.78	0.5	80.9	1030.4	15.9	68.1	40.677101	-73.998398	30	187.4	13.122
10/30/2024 9:10	0	7.89	0.6	117	1030.2	15.8	68.2	40.677101	-73.998398	29	187.1	13.125
10/30/2024 9:11	0	8.38	0.34	352.9	1030.2	15.8	68.4	40.677101	-73.998398	28.5	187.4	13.137
10/30/2024 9:12	0	8.34	0.38	171.1	1030.1	15.8	68.6	40.677101	-73.998398	28.4	187.6	13.134
10/30/2024 9:13	0	8.73	0.48	155.1	1030.1	15.8	68.4	40.677101	-73.998497	28	187.8	13.119
10/30/2024 9:14	0	7.91	0.24	153	1030	15.7	68.5	40.677101	-73.998497	27.7	187.5	13.131
10/30/2024 9:15	0	8.08	0.38	124.2	1030	15.7	68.4	40.677101	-73.998497	27.7	187.6	13.119
10/30/2024 9:16	0	8.35	0.32	8.9	1030	15.8	68.7	40.677101	-73.998497	27.7	187.5	13.122
10/30/2024 9:17	0	8.42	0.32	360	1030.1	15.8	68.8	40.677101	-73.998497	28.1	187.9	13.122
10/30/2024 9:18	0	8.25	0.82	314	1030.1	15.8	69.1	40.677101	-73.998497	28.6	187.2	13.122
10/30/2024 9:19	0	7.27	0.62	296.6	1030.2	15.7	68.8	40.677101	-73.998497	29	187.5	13.119
10/30/2024 9:20	0	7.24	0.44	52.6	1030.2	15.7	68.6	40.677101	-73.998398	29.2	187.4	13.122
10/30/2024 9:21	0	7.37	0.25	42.2	1030.2	15.8	69	40.677101	-73.998398	29.2	187.5	13.119
10/30/2024 9:22	0	7.32	0.45	177.6	1030.2	15.8	68.8	40.677101	-73.998398	29.4	187.8	13.122
10/30/2024 9:23	0	7.22	0.67	308.8	1030.2	15.8	68.9	40.677101	-73.998398	29.3	187.4	13.128
10/30/2024 9:24	0	7.44	0.5	299.1	1030.2	15.8	69	40.677101	-73.998398	29.3	187.8	13.128
10/30/2024 9:25	0	7.24	0.87	167	1030.2	15.7	68.8	40.677101	-73.998398	29.3	187	13.116
10/30/2024 9:26	0	7.51	0.6	125	1030.2	15.7	68.7	40.677101	-73.998497	29.4	187.5	13.116
10/30/2024 9:27	0	7.43	0.3	293.7	1030.3	15.7	68.9	40.677101	-73.998398	29.4	187.1	13.119
10/30/2024 9:28	0	7.37	0.52	67.6	1030.3	15.7	68.8	40.677101	-73.998398	29.3	187.3	13.116
10/30/2024 9:29	0	7.55	0.73	299.9	1030.3	15.7	68.9	40.677101	-73.998398	29.2	187.7	13.119
10/30/2024 9:30	0	7.54	0.62	79	1030.3	15.7	68.9	40.677101	-73.998398	29.3	187.4	13.116
10/30/2024 9:31	0	7.57	0.52	149.4	1030.4	15.7	68.7	40.677101	-73.998398	29.5	187.4	13.122
10/30/2024 9:32	0	7.68	0.47	268.2	1030.4	15.7	68.8	40.677101	-73.998398	29.7	187.5	13.125
10/30/2024 9:33	0	7.95	0.6	191.8	1030.4	15.7	68.8	40.677101	-73.998398	29.9	187	13.122
10/30/2024 9:34	0	7.8	0.54	133.1	1030.4	15.7	68.6	40.677101	-73.998398	29.9	187.6	13.119
10/30/2024 9:35	0	7.88	0.54	106.8	1030.4	15.7	68.7	40.677101	-73.998398	29.8	187.6	13.122
10/30/2024 9:36	0	7.52	0.83	118.9	1030.4	15.7	68.9	40.677101	-73.998398	29.7	187.5	13.125
10/30/2024 9:37	0	7.77	0.57	153.1	1030.3	15.6	68.9	40.677101	-73.998398	29.7	187.6	13.116
10/30/2024 9:38	0	7.83	0.51	61.4	1030.4	15.6	69.1	40.677101	-73.998398	29.6	187.5	13.113
10/30/2024 9:39	0	7.62	0.55	68.6	1030.3	15.7	69.2	40.677101	-73.998398	29.5	187.5	13.125
10/30/2024 9:40	0	8	0.39	356.4	1030.4	15.8	69.6	40.677101	-73.998398	29.5	186.7	13.119
10/30/2024 9:41	0	8.52	0.26	340.9	1030.4	15.8	69.6	40.677101	-73.998398	29.6	187.5	13.119
10/30/2024 9:42	0.01	8.02	0.36	13.1	1030.4	15.9	69.4	40.677101	-73.998398	29.6	187.5	13.113
10/30/2024 9:43	0.01	8.02	0.37	9.6	1030.4	15.9	69.3	40.677101	-73.998398	29.6	187.8	13.119
10/30/2024 9:44	0.01	8.4	0.53	137.9	1030.3	15.9	68.9	40.677101	-73.998398	29.6	187.8	13.122
10/30/2024 9:45	0.01	8.53	0.37	173	1030.3	15.9	68.6	40.677101	-73.998398	29.7	187.9	13.116
10/30/2024 9:46	0.02	8.51	0.45	249.2	1030.3	15.9	68.7	40.677101	-73.998398	29.7	186.7	13.116
10/30/2024 9:47	0.02	8.32	0.57	321.5	1030.3	15.9	68.8	40.677101	-73.998398	29.8	187.1	13.116
10/30/2024 9:48	0.01	8.7	0.47	267.1	1030.3	16	68.4	40.677101	-73.998398	30	188.2	13.113
10/30/2024 9:49	0.01	8.86	0.77	326.4	1030.3	16	68.5	40.677101	-73.998398	30.2	187.2	13.116
10/30/2024 9:50	0.01	8.96	0.77	268.3	1030.3	16	68.3	40.677101	-73.998398	30.3	187.3	13.116
10/30/2024 9:51	0.01	8.42	0.4	256.9	1030.4	16	68.2	40.677101	-73.998398	30.4	187.3	13.113
10/30/2024 9:52	0.01	8.69	0.35	351.3	1030.5	16	68.1	40.677101	-73.998398	30.6	188	13.116
10/30/2024 9:53	0.01	8.83	0.44	155.4	1030.5	16	68	40.677101	-73.998398	30.6	186.9	13.113
10/30/2024 9:54	0.01	8.69	0.55	71.7	1030.5	16	67.8	40.677101	-73.998398	31	187.8	13.113
10/30/2024 9:55	0	8.54	0.47	3.2	1030.7	16.1	68	40.677101	-73.998398	32.5	186.9	13.116
10/30/2024 9:56	0.01	8.48	0.49	126.4	1030.7	16	67.7	40.677101	-73.998398	32.2	187.6	13.119
10/30/2024 9:57	0.01	9.45	0.54	282.9	1031.4	16.1	67.7	40.677101	-73.998398	38.3	187.6	13.113
10/30/2024 9:58	0.01	8.98	0.32	335.1	1033.5	16.1	67.8	40.677101	-73.998398	55.1	187.3	13.113
10/30/2024 9:59	0.01	9.57	1.02	311.8	1033.3	16.2	67.9	40.677101	-73.998398	53.5	186.9	13.122
10/30/2024 10:00	0.01	13.49	0.68	141.4	1033	16.2	67.7	40.677101	-73.998398	51.7	187.4	13.116
10/30/2024 10:01	0.01	9.98	0.79	166.9	1030.8	16.1	67.4	40.677101	-73.998398	33.7	188.4	13.116
10/30/2024 10:02	0	8.99	0.83	149.2	1030.7	16.1	67.3	40.677101	-73.998398	32.8	187.3	13.113
10/30/2024 10:03	0	9.12	0.34	171.2	1030.8	16.1	67.2	40.677101	-73.998398	33.5	186.7	13.113
10/30/2024 10:04	0.01	9.26	0.41	281.1	1030.8	16.2	67.3	40.677101	-73.998398	33.8	188	13.122
10/30/2024 10:05	0.01	9.19	0.45	322.4	1030.8	16.3	67.4	40.677101	-73.998398	33.5	187.2	13.116
10/30/2024 10:06	0	8.95	0.5	330.8	1030.8	16.4	67.2	40.677101	-73.998398	33.6	186.3	13.113
10/30/2024 10:07	0	9.06	0.51	353.1	1030.8	16.4	67.1	40.677101	-73.998398	34	187.3	13.116
10/30/2024 10:08	0	9.43	0.84	89.5	1030.8	16.4	67.1	40.677101	-73.998398	34.4	187.4	13.122

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 10:09	0.01	9.41	0.67	140.5	1030.8	16.4	66.9	40.677101	-73.998398	33.8	187.5	13.113
10/30/2024 10:10	0	9.16	1.04	135.1	1030.8	16.4	66.7	40.677101	-73.998398	33.8	187.6	13.116
10/30/2024 10:11	0	9.48	1.14	125.3	1030.7	16.3	66.6	40.677101	-73.998398	33.6	186.9	13.116
10/30/2024 10:12	0	9.14	0.55	133.7	1030.6	16.2	66.7	40.677101	-73.998398	33.4	187.9	13.113
10/30/2024 10:13	0	9.6	0.42	322.8	1030.7	16.3	66.8	40.677101	-73.998398	33.4	188.9	13.113
10/30/2024 10:14	0	11.22	0.54	324.6	1030.7	16.4	67.1	40.6772	-73.998398	33.2	190.9	13.116
10/30/2024 10:15	0.01	10.15	1.02	156.6	1030.7	16.4	66.8	40.6772	-73.998398	33.4	190.2	13.116
10/30/2024 10:16	0.01	10.06	1.17	152.6	1030.7	16.3	66.7	40.6772	-73.998398	33.6	190.5	13.116
10/30/2024 10:17	0.01	9.24	0.73	163.2	1030.7	16.3	66.7	40.6772	-73.998398	33.9	189.9	13.113
10/30/2024 10:18	0.01	9.36	1.1	150.8	1030.7	16.2	66.7	40.6772	-73.998398	34.4	190.5	13.113
10/30/2024 10:19	0.01	9.6	0.87	147.6	1030.8	16.2	66.7	40.6772	-73.998398	34.8	190.6	13.119
10/30/2024 10:20	0.01	15.54	0.69	163.3	1030.8	16.3	66.8	40.6772	-73.998398	34.7	190.4	13.113
10/30/2024 10:21	0.01	13.92	0.9	133.5	1030.8	16.3	66.7	40.6772	-73.998398	34.5	190.6	13.113
10/30/2024 10:22	0.01	12.42	0.98	121.2	1030.7	16.3	66.6	40.6772	-73.998398	34.5	190.8	13.116
10/30/2024 10:23	0	9.93	0.67	165.8	1030.8	16.4	66.7	40.6772	-73.998398	34.6	190.1	13.113
10/30/2024 10:24	0	9.43	0.83	152.6	1030.8	16.4	66.5	40.6772	-73.998398	34.6	190.5	13.113
10/30/2024 10:25	0	9.81	1.39	119.4	1030.7	16.5	66.2	40.6772	-73.998398	34.6	190.4	13.113
10/30/2024 10:26	0	9.81	0.98	120.7	1030.7	16.4	66	40.6772	-73.998398	34.7	190.2	13.113
10/30/2024 10:27	0	10.42	1.51	133.8	1030.7	16.5	65.9	40.6772	-73.998398	34.6	190.1	13.119
10/30/2024 10:28	0	9.83	0.55	128.4	1030.7	16.4	65.8	40.677101	-73.998398	34.5	189.8	13.113
10/30/2024 10:29	0	10.17	0.88	189.6	1030.6	16.5	65.9	40.677101	-73.998398	34.2	189.5	13.11
10/30/2024 10:30	0	11	0.8	140.7	1030.6	16.5	65.8	40.677101	-73.998398	34	190.6	13.11
10/30/2024 10:31	0	11.03	0.77	139.2	1030.5	16.6	65.7	40.677101	-73.998398	33.5	190.8	13.116
10/30/2024 10:32	0	11.38	1.57	151.8	1030.5	16.6	65.4	40.677101	-73.998398	33.3	190.2	13.116
10/30/2024 10:33	0	10.43	1.2	150.3	1030.5	16.5	65.2	40.677101	-73.998398	33.3	190.4	13.116
10/30/2024 10:34	0	10.49	0.88	76.1	1030.5	16.5	65.3	40.677101	-73.998398	33.4	190.3	13.116
10/30/2024 10:35	0	10.21	1.01	318.3	1030.5	16.6	65.6	40.677101	-73.998398	33.4	189.8	13.113
10/30/2024 10:36	0	10.56	0.57	306.1	1030.5	16.7	65.8	40.677101	-73.998398	33.4	190.2	13.113
10/30/2024 10:37	0.01	10.99	0.52	142.3	1030.5	16.7	65.6	40.677101	-73.998398	33.2	190.1	13.116
10/30/2024 10:38	0.01	11.84	0.58	351.8	1030.5	16.7	66.3	40.677101	-73.998398	33.1	188.8	13.119
10/30/2024 10:39	0.01	13.17	0.42	276.9	1030.5	16.8	66.1	40.677101	-73.998398	33	189.4	13.113
10/30/2024 10:40	0.01	10.47	0.75	174.3	1030.4	16.8	65.2	40.677101	-73.998398	32.9	189.9	13.113
10/30/2024 10:41	0.01	10.88	0.45	163	1030.4	16.8	65.1	40.677101	-73.998398	33	189.7	13.113
10/30/2024 10:42	0.01	10.97	0.59	194.3	1030.4	16.7	65.1	40.677101	-73.998398	33	190.5	13.113
10/30/2024 10:43	0.01	10.8	0.76	240.7	1030.4	16.8	65.3	40.677101	-73.998398	33.1	190.4	13.116
10/30/2024 10:44	0.01	11.12	0.51	86.6	1030.4	16.8	64.9	40.677101	-73.998398	33.2	190.7	13.113
10/30/2024 10:45	0.01	11.35	0.61	321.5	1030.4	16.8	65.2	40.677101	-73.998398	33.2	190.6	13.119
10/30/2024 10:46	0.01	11.59	0.88	161	1030.4	16.9	65.2	40.677101	-73.998398	33.2	190.2	13.116
10/30/2024 10:47	0.01	10.33	0.86	139.9	1030.4	16.9	64.7	40.677101	-73.998398	33.3	189.8	13.113
10/30/2024 10:48	0.01	10.5	1.02	136.7	1030.3	16.8	64.7	40.677101	-73.998398	33.3	189	13.113
10/30/2024 10:49	0.01	10.38	1.12	131.8	1030.3	16.8	64.7	40.677101	-73.998398	33.2	189	13.113
10/30/2024 10:50	0.01	10.66	0.93	141.6	1030.3	16.7	64.6	40.677101	-73.998398	33.1	189.1	13.113
10/30/2024 10:51	0.01	11.16	0.66	150.4	1030.3	16.8	64.7	40.677101	-73.998398	33	189.2	13.113
10/30/2024 10:52	0.01	11.79	0.66	148.1	1030.3	16.8	64.6	40.677101	-73.998398	33	188	13.113
10/30/2024 10:53	0.01	10.97	0.83	121.4	1030.3	16.8	64.5	40.677101	-73.998398	32.9	188.2	13.116
10/30/2024 10:54	0	11.22	0.97	109.1	1030.2	16.8	64.5	40.677101	-73.998398	32.9	188.4	13.113
10/30/2024 10:55	0	11.24	1.01	156.8	1030.2	16.8	64.5	40.677101	-73.998398	32.8	187.9	13.116
10/30/2024 10:56	0	11.06	0.52	297.6	1030.3	16.9	64.6	40.677101	-73.998398	32.9	187.7	13.113
10/30/2024 10:57	0	11.53	0.82	137	1030.3	16.9	64.6	40.677101	-73.998398	33	187.7	13.113
10/30/2024 10:58	0	11.67	0.43	302.4	1030.3	17	64.8	40.677101	-73.998398	33	187.6	13.113
10/30/2024 10:59	0	11.59	0.83	314.8	1030.2	17.1	64.8	40.677101	-73.998398	32.9	188.4	13.113
10/30/2024 11:00	0	11.41	0.67	177.3	1030.2	17.1	64.5	40.677101	-73.998398	33	188.3	13.113
10/30/2024 11:01	0	11.41	0.57	258	1030.2	17.1	64.4	40.677101	-73.998398	33.2	188.2	13.113
10/30/2024 11:02	0	11.97	0.93	297.1	1030.2	17.1	64.7	40.677101	-73.998398	33.5	188.9	13.113
10/30/2024 11:03	0	12.38	0.52	189.5	1030.3	17.2	64.7	40.677101	-73.998398	33.8	188.2	13.113
10/30/2024 11:04	0	11.78	0.65	119.1	1030.3	17.2	64.2	40.677101	-73.998398	33.7	188.4	13.113
10/30/2024 11:05	0	11.26	0.87	118.7	1030.3	17.2	64.1	40.677101	-73.998398	33.7	188.2	13.116
10/30/2024 11:06	0	11.33	0.78	140.9	1030.3	17.1	64	40.677101	-73.998398	33.8	188.3	13.116
10/30/2024 11:07	0	11.57	0.73	155.4	1030.3	17.1	64	40.677101	-73.998398	33.9	188.3	13.11
10/30/2024 11:08	0	11.37	0.9	118	1030.3	17.1	64.1	40.677101	-73.998398	34	188.6	13.113
10/30/2024 11:09	0	11.12	0.73	118.9	1030.3	17.2	64.2	40.677101	-73.998398	34.1	188.7	13.113
10/30/2024 11:10	0	12.17	1.02	129.9	1030.3	17.2	64.2	40.677101	-73.998398	34.1	188.6	13.113
10/30/2024 11:11	0	12.03	0.75	160	1030.3	17.2	64.3	40.677101	-73.998398	34	188.2	13.113
10/30/2024 11:12	0	12	0.87	138.4	1030.3	17.2	64.2	40.677101	-73.998398	34.1	188.7	13.113
10/30/2024 11:13	0	12.6	0.64	169.5	1030.3	17.2	64.3	40.677101	-73.998398	34	188.5	13.113
10/30/2024 11:14	0	13.15	0.96	127.7	1030.3	17.2	64.4	40.677101	-73.998398	34	188.1	13.113
10/30/2024 11:15	0	12.37	0.56	125.5	1030.3	17.3	64.3	40.677101	-73.998398	34	188.2	13.116
10/30/2024 11:16	0	12.36	0.68	295.1	1030.3	17.3	64.4	40.677101	-73.998398	34	188.3	13.113
10/30/2024 11:17	0	12.44	0.91	259.8	1030.3	17.4	64.5	40.677101	-73.998398	34	188.5	13.113
10/30/2024 11:18	0	12.67	0.79	157.6	1030.3	17.4	64.4	40.677101	-73.998398	33.9	187.9	13.113
10/30/2024 11:19	0	11.75	0.6	304.4	1030.3	17.4	64.2	40.677101	-73.998398	34	188.5	13.113
10/30/2024 11:20	0.01	12.43	0.97	238.7	1030.3	17.5	64.3	40.677101	-73.998398	34	188.2	13.107
10/30/2024 11:21	0	15.01	0.9	270.3	1030.3	17.6	64.4	40.677101	-73.998398	34.1	187.8	13.107
10/30/2024 11:22	0	14.53	0.56	305.5	1030.3	17.7	64.3	40.677101	-73.998398	34.1	188.5	13.113
10/30/2024 11:23	0	12.92	0.52	247.4	1030.3	17.8	64	40.677101	-73.998398	34.2	187.9	13.113
10/30/2024 11:24	0	12.64	0.43	191.5	1030.3	17.8	63.6	40.677101	-73.998398	34.4	188.2	13.113
10/30/2024 11:25	0.01	12.34	0.62	122	1030.2	17.8	63.7	40.677101	-73.998398	34.3	187.9	13.113
10/30/2024 11:26	0.01	12.91	0.45	49.9	1030.3	17.9	63.5	40.677101	-73.998398	34.4	187.9	13.113
10/30/2024 11:27	0.01	11.94	0.74	109.1	1030.3	17.9	63.2	40.677101	-73.998398	34.5	188	13.11
10/30/2024 11:28	0.01	11.44	0.33	149.3	1030.2	17.9	63	40.677101	-73.998398	34.4	188.2	13.11
10/30/2024 11:29	0.01	11.98	0.86	138	1030.2	17.9	63	40.677101	-73.998398	34.4	187.8	13.113
10/30/2024 11:30	0.01	13.39	0.95	104.2	1030.2	17.8	62.9	40.677101	-73.998398	34.4	186.9	13.11

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 11:31	0.01	14.4	0.71	281.9	1030.2	17.9	63.1	40.677101	-73.998398	34.4	185.5	13.113
10/30/2024 11:32	0.01	12.23	0.93	293.8	1030.2	18	63.1	40.677101	-73.998398	34.4	186.1	13.11
10/30/2024 11:33	0.01	11.82	0.97	163.1	1030.2	18	62.8	40.677101	-73.998398	34.4	186.3	13.113
10/30/2024 11:34	0.01	12.02	0.92	149.2	1030.2	18	62.7	40.677101	-73.998398	34.6	186.4	13.116
10/30/2024 11:35	0.01	11.81	0.78	359.5	1030.3	18	62.9	40.677101	-73.998398	34.8	188.8	13.107
10/30/2024 11:36	0.01	11.8	1.25	156.9	1030.2	18.1	62.6	40.677101	-73.998398	35	188.3	13.096
10/30/2024 11:37	0.01	11.38	0.91	96.5	1030.2	18	62.6	40.677101	-73.998398	35.1	188.2	13.116
10/30/2024 11:38	0.01	11.07	0.65	127	1030.2	18.1	62.6	40.677101	-73.998398	35.2	188.3	13.116
10/30/2024 11:39	0.01	11.35	0.52	315.8	1030.3	18.1	62.8	40.677101	-73.998398	35.3	187.7	13.113
10/30/2024 11:40	0.01	11.45	0.47	78.2	1030.3	18.1	62.5	40.677101	-73.998398	35.4	187.9	13.113
10/30/2024 11:41	0.01	11.58	0.62	291.3	1030.3	18.2	62.5	40.677101	-73.998398	35.6	187	13.11
10/30/2024 11:42	0.01	11.27	0.79	160.7	1030.3	18.2	62.3	40.677101	-73.998398	35.8	184.7	13.113
10/30/2024 11:43	0.01	11.85	0.65	143.6	1030.2	18.2	62.1	40.677101	-73.998398	35.8	184.2	13.107
10/30/2024 11:44	0.01	11.5	0.58	130.4	1030.2	18.2	62.1	40.677101	-73.998398	36	184.7	13.11
10/30/2024 11:45	0.01	11.5	0.85	137.8	1030.3	18.2	62	40.677101	-73.998398	36.1	186.8	13.113
10/30/2024 11:46	0.01	10.79	0.77	124.4	1030.3	18.2	61.8	40.677101	-73.998398	36.2	188	13.113
10/30/2024 11:47	0	10.98	0.47	78.7	1030.3	18.3	61.9	40.677101	-73.998398	36.2	188.1	13.11
10/30/2024 11:48	0	11.04	0.73	322.9	1030.3	18.4	62.1	40.677101	-73.998398	36.5	188	13.113
10/30/2024 11:49	0	11.17	0.47	28.2	1030.3	18.5	62	40.677101	-73.998398	36.5	188.5	13.107
10/30/2024 11:50	0	10.46	0.57	12.4	1030.3	18.5	61.8	40.677101	-73.998398	36.4	188.1	13.11
10/30/2024 11:51	0	10.53	0.9	129.2	1030.2	18.5	61.6	40.677101	-73.998398	36.4	188.1	13.113
10/30/2024 11:52	0	10.4	0.58	22.4	1030.2	18.5	61.5	40.677101	-73.998398	36.5	187.9	13.11
10/30/2024 11:53	0	12.09	0.77	140.8	1030.1	18.5	61.2	40.677101	-73.998398	36.6	188.1	13.113
10/30/2024 11:54	0	14.58	0.75	136.6	1030.1	18.6	61.2	40.677101	-73.998398	36.6	188.2	13.104
10/30/2024 11:55	0	13.28	0.7	273.9	1030.1	18.6	61.2	40.677101	-73.998398	36.7	189.1	13.107
10/30/2024 11:56	0	12.1	0.75	142.2	1030.2	18.7	61.1	40.677101	-73.998398	36.9	189.3	13.104
10/30/2024 11:57	0	10.58	0.56	130	1030.2	18.7	60.9	40.677101	-73.998398	37	188.8	13.104
10/30/2024 11:58	0	10.92	0.74	103.3	1030	18.8	61	40.677101	-73.998398	36.7	188.7	13.11
10/30/2024 11:59	0.05	11.2	0.76	348.9	1030	18.8	61.4	40.677101	-73.998398	36.6	188.9	13.104
10/30/2024 12:00	0.12	10.64	0.39	38.4	1030	18.8	62.5	40.677101	-73.998398	36.6	189	13.099
10/30/2024 12:01	0.04	10.41	0.59	285.2	1030	18.8	64.6	40.677101	-73.998398	36.6	189.3	13.107
10/30/2024 12:02	0.02	10.46	0.48	355.7	1030	18.9	64.8	40.677101	-73.998398	36.7	188.8	13.102
10/30/2024 12:03	0.02	9.78	0.65	335.3	1029.9	18.9	63.9	40.677101	-73.998398	36.7	188.8	13.099
10/30/2024 12:04	0.01	9.69	0.35	12.4	1029.9	19	64.3	40.677101	-73.998398	36.7	189.1	13.102
10/30/2024 12:05	0	9.78	0.42	321.8	1029.9	19	64.6	40.677101	-73.998398	36.6	188.8	13.104
10/30/2024 12:06	0	10.7	0.85	285.2	1029.9	19	64.5	40.677101	-73.998398	36.5	189.1	13.102
10/30/2024 12:07	0	9.78	0.38	301.6	1029.9	19	63.6	40.677101	-73.998398	36.4	188.5	13.104
10/30/2024 12:08	0	9.69	0.45	8.3	1029.9	19	63.3	40.677101	-73.998398	36.3	188.7	13.099
10/30/2024 12:09	0	10.31	0.51	190.1	1029.9	19.1	63.4	40.677101	-73.998398	36.2	188.5	13.102
10/30/2024 12:10	0	10.25	0.52	113.2	1029.9	19.1	62.8	40.677101	-73.998398	36.2	188.9	13.102
10/30/2024 12:11	0	9.04	0.45	54.4	1029.7	19.1	62.3	40.677101	-73.998398	35.9	188.5	13.096
10/30/2024 12:12	0	9.37	0.62	57.5	1029.7	19.1	62.4	40.677101	-73.998398	35.8	188.6	13.093
10/30/2024 12:13	0	9.2	0.78	117.8	1029.7	19.1	61.9	40.677101	-73.998398	35.5	188.9	13.104
10/30/2024 12:14	0	9.39	0.68	116.6	1029.7	19.1	62.2	40.677101	-73.998398	35.4	188.4	13.102
10/30/2024 12:15	0	8.73	0.36	61.6	1029.6	19.1	62.1	40.677101	-73.998398	35.2	188.9	13.09
10/30/2024 12:16	0	8.86	0.52	277.8	1029.5	19.1	62	40.677101	-73.998398	34.8	188.6	13.102
10/30/2024 12:17	0	9.1	0.6	62	1029.4	19.2	61.9	40.677101	-73.998398	34.1	188.4	13.081
10/30/2024 12:18	0	8.68	0.28	94.9	1028.5	19.2	61.7	40.677101	-73.998398	27.2	188.8	13.081
10/30/2024 12:19	0	8.53	0.62	125.2	1026.8	19.2	61.2	40.677101	-73.998398	13.9	189.1	13.078
10/30/2024 12:20	0	8.6	0.38	63.4	1026.9	19.3	61	40.677101	-73.998398	14.1	188.2	13.093
10/30/2024 12:21	0	8.73	1.02	105.2	1026.9	19.3	61	40.677101	-73.998398	14.7	188.6	13.099
10/30/2024 12:22	0	8.88	0.73	94.5	1027.1	19.3	60.6	40.677101	-73.998398	16.7	188.9	13.084
10/30/2024 12:23	0	9.01	0.82	129.7	1027.4	19.3	61	40.677101	-73.998398	19.3	188.9	13.093
10/30/2024 12:24	0	8.98	0.99	125.3	1027.4	19.3	60.6	40.677101	-73.998398	19.7	189.1	13.084
10/30/2024 12:25	0	8.92	0.87	129	1027.4	19.3	60.6	40.677101	-73.998398	19.7	188.7	13.081
10/30/2024 12:26	0	9.04	0.51	128.9	1027.4	19.4	60.6	40.677101	-73.998398	20.3	188.8	13.078
10/30/2024 12:27	0	8.99	0.59	69.4	1027.5	19.4	60.5	40.677101	-73.998398	21.1	188.9	13.084
10/30/2024 12:28	0	8.46	0.33	29.7	1027.6	19.4	60.5	40.677101	-73.998398	22	188.7	13.081
10/30/2024 12:29	0	8.63	0.47	104.6	1027.6	19.5	60.6	40.677101	-73.998398	22	188.7	13.087
10/30/2024 12:30	0	8.79	0.72	108.7	1027.6	19.5	60.2	40.677101	-73.998398	21.8	188.9	13.087
10/30/2024 12:31	0	8.61	0.48	353.7	1027.5	19.5	60	40.677101	-73.998398	21.8	189	13.078
10/30/2024 12:32	0	8.4	0.46	19.9	1027.5	19.5	59.9	40.677101	-73.998398	21.6	188.9	13.087
10/30/2024 12:33	0	8.42	0.48	97.9	1027.5	19.5	59.7	40.677101	-73.998398	21.7	188.7	13.087
10/30/2024 12:34	0	8.77	0.47	106.2	1027.5	19.5	59.8	40.677101	-73.998398	21.6	189	13.087
10/30/2024 12:35	0	8.73	0.56	121.9	1027.4	19.6	59.6	40.677101	-73.998398	21.7	188.9	13.078
10/30/2024 12:36	0	8.49	0.51	85.9	1027.4	19.6	59.6	40.677101	-73.998398	21.6	188.8	13.078
10/30/2024 12:37	0	8.24	0.69	330.8	1027.4	19.7	59.5	40.677101	-73.998398	21.8	189.1	13.078
10/30/2024 12:38	0	8.35	0.47	95.5	1027.4	19.8	59.2	40.677101	-73.998398	22.1	188.8	13.081
10/30/2024 12:39	0	8.61	0.26	7.5	1027.5	19.8	59.2	40.677101	-73.998398	22.3	188.3	13.078
10/30/2024 12:40	0	8.12	0.43	337.3	1027.5	19.9	59.2	40.677101	-73.998398	22.3	188.8	13.081
10/30/2024 12:41	0	8.18	0.57	293.1	1027.4	20	58.8	40.677101	-73.998398	22.4	188.3	13.081
10/30/2024 12:42	0	8.07	0.42	153.2	1027.4	20	58.5	40.677101	-73.998398	22.7	188.8	13.078
10/30/2024 12:43	0	8.15	0.69	337.8	1027.4	20.1	58.8	40.677101	-73.998398	22.6	189	13.078
10/30/2024 12:44	0	8.19	0.74	97.6	1027.4	20.2	58.2	40.677101	-73.998398	22.5	188.8	13.078
10/30/2024 12:45	0	8.71	0.97	139	1027.4	20.2	58	40.677101	-73.998398	22.4	189.1	13.078
10/30/2024 12:46	0	8.77	1.17	124.3	1027.3	20.2	57.6	40.677101	-73.998398	22.3	188.9	13.078
10/30/2024 12:47	0	9.11	0.73	126.9	1027.3	20.2	57.6	40.677101	-73.998398	22.4	188.8	13.084
10/30/2024 12:48	0	8.83	0.46	109.3	1027.3	20.2	57.7	40.677101	-73.998398	22.5	189.1	13.078
10/30/2024 12:49	0	8.78	0.42	296.2	1027.3	20.2	57.8	40.677101	-73.998398	22.5	188.9	13.081
10/30/2024 12:50	0	9.14	0.6	152.6	1027.3	20.3	57.4	40.677101	-73.998398	22.5	189.2	13.078
10/30/2024 12:51	0	9.94	0.44	291.7	1027.3	20.3	57.2	40.677101	-73.998398	22.6	189.1	13.075
10/30/2024 12:52	0	8.67	0.63	100.4	1027.2	20.3	57	40.677101	-73.998398	22.5	188.9	13.072

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 12:53	0	8.1	0.74	95.3	1027.2	20.4	57	40.677101	-73.998398	22.6	188.5	13.078
10/30/2024 12:54	0	8.23	0.49	140.2	1027.2	20.4	56.9	40.677101	-73.998398	22.8	189	13.072
10/30/2024 12:55												
10/30/2024 12:56												
10/30/2024 12:57												
10/30/2024 12:58	0	8.07	1.08	104.1	1027.2	20.6	56.9	40.677101	-73.998398	22.9	188.9	13.078
10/30/2024 12:59	0	8.41	0.59	124.3	1027.1	20.6	56.8	40.677101	-73.998398	23	189	13.078
10/30/2024 13:00	0	8.86	1.14	114.5	1027.2	20.6	56.8	40.677101	-73.998398	23.1	188.9	13.078
10/30/2024 13:01	0	8.37	0.76	112.4	1027.2	20.6	56.7	40.677101	-73.998398	23.2	188.8	13.078
10/30/2024 13:02	0	8.05	0.51	125.7	1027.2	20.6	56.6	40.677101	-73.998398	23.2	189.4	13.078
10/30/2024 13:03	0	8.63	0.64	82.1	1027.1	20.7	56.6	40.677101	-73.998398	23.2	189.2	13.078
10/30/2024 13:04	0	8.54	0.51	124.8	1027.1	20.7	56.6	40.677101	-73.998398	23.4	189.3	13.078
10/30/2024 13:05	0	9.31	0.72	115.8	1027.1	20.8	56.5	40.677101	-73.998398	23.4	189.6	13.078
10/30/2024 13:06	0	7.81	0.73	152.1	1027.1	20.8	56.2	40.677101	-73.998398	23.3	189.2	13.075
10/30/2024 13:07	0	8.05	0.32	314.3	1027.1	20.9	56.2	40.677101	-73.998398	23.2	189.4	13.075
10/30/2024 13:08	0	7.89	1.08	116.4	1027	20.9	56.1	40.677101	-73.998398	23.2	188.9	13.078
10/30/2024 13:09	0	9.22	0.65	131.6	1027	21	56.1	40.677101	-73.998398	23.2	188.7	13.075
10/30/2024 13:10	0	9.83	0.35	138	1027	21.1	55.8	40.677101	-73.998398	23.2	189.1	13.078
10/30/2024 13:11	0	9.63	0.28	123.6	1027	21.2	55.9	40.677101	-73.998398	23.3	188.9	13.075
10/30/2024 13:12	0	8.19	0.62	119	1027	21.4	55.9	40.677101	-73.998398	23.3	189.1	13.075
10/30/2024 13:13	0	7.48	0.52	44.2	1027	21.4	55.5	40.677101	-73.998398	23.3	188.9	13.075
10/30/2024 13:14	0	8.12	0.52	332.6	1027	21.6	55.8	40.677101	-73.998299	23.3	189.3	13.072
10/30/2024 13:15	0	7.89	0.58	193.6	1027	21.9	55.2	40.6772	-73.998398	23.3	189	13.049
10/30/2024 13:16	0	6.79	0.46	287.1	1027	22.1	54.8	40.677101	-73.998299	23.3	189.5	13.072
10/30/2024 13:17	0	6.71	0.68	120.3	1027	22.3	54.2	40.677101	-73.998299	23.4	189.6	13.075
10/30/2024 13:18	0	7.29	0.69	111.2	1026.9	22.4	53.9	40.677101	-73.998299	23.3	189.7	13.075
10/30/2024 13:19	0	8.47	0.73	121	1026.9	22.5	53.6	40.677101	-73.998299	23.3	190.1	13.064
10/30/2024 13:20	0	7.98	0.47	85.5	1026.9	22.8	53.3	40.6772	-73.998299	23.3	190.6	13.072
10/30/2024 13:21	0	9.69	0.7	107.9	1026.8	23	52.9	40.677101	-73.998299	23.3	190.2	13.069
10/30/2024 13:22	0	10.37	0.87	124	1026.8	23.1	52.7	40.677101	-73.998299	23.3	190.3	13.078
10/30/2024 13:23	0	7.27	0.78	117.3	1026.7	23.1	52.3	40.677101	-73.998299	23.3	190.1	13.072
10/30/2024 13:24	0	7.2	0.49	53.9	1026.8	23.3	52.4	40.677101	-73.998299	23.3	190	13.046
10/30/2024 13:25	0	9.39	0.43	311.7	1026.8	23.5	52.5	40.677101	-73.998299	23.3	190.2	13.066
10/30/2024 13:26	0	8.92	0.41	359.7	1026.8	23.8	52.2	40.6772	-73.998299	23.4	190.1	13.075
10/30/2024 13:27	0	8.01	0.28	307.4	1026.7	24	51.9	40.6772	-73.998299	23.6	189.5	13.066
10/30/2024 13:28	0	7.14	0.65	326.7	1026.7	24.2	51.3	40.6772	-73.998299	23.6	189.4	13.066
10/30/2024 13:29	0	7.9	0.55	309.8	1026.7	24.3	51.3	40.6772	-73.998299	23.6	189.1	13.069
10/30/2024 13:30	0	7.67	0.65	122.7	1026.6	24.3	50.5	40.6772	-73.998299	23.4	189.8	13.066
10/30/2024 13:31	0	7.15	1.12	115.8	1026.6	24.2	50	40.6772	-73.998299	23.3	189.1	13.066
10/30/2024 13:32	0	7.02	0.59	136.2	1026.6	24.1	50.2	40.677101	-73.998299	23.4	188.9	13.072
10/30/2024 13:33	0	8.27	0.77	245.4	1026.6	24.4	50.1	40.677101	-73.998299	23.4	189.2	13.061
10/30/2024 13:34	0	8.22	0.33	87.2	1026.6	24.5	50	40.677101	-73.998299	23.4	188.8	13.072
10/30/2024 13:35	0	8.57	0.38	304.3	1026.6	24.7	50.2	40.677101	-73.998299	23.4	187.3	13.064
10/30/2024 13:36	0	8.17	0.35	257.1	1026.6	24.8	49.3	40.677101	-73.998299	23.4	189.6	13.069
10/30/2024 13:37	0	8.71	0.26	271.5	1026.6	24.8	49.1	40.677101	-73.998299	23.6	188.9	13.061
10/30/2024 13:38	0	8.54	0.73	289.6	1026.6	24.9	49	40.677101	-73.998299	23.5	188.7	13.072
10/30/2024 13:39	0	7.5	0.65	313.8	1026.6	24.9	48.9	40.677101	-73.998299	23.5	188.2	13.072
10/30/2024 13:40	0	8.48	0.61	329.3	1026.6	25.2	49.2	40.677101	-73.998398	23.7	188.7	13.066
10/30/2024 13:41	0	7.75	0.84	286.8	1026.5	25.3	48.5	40.677101	-73.998299	23.7	188.6	13.066
10/30/2024 13:42	0	6.72	0.43	350.6	1026.5	25.3	48.2	40.677101	-73.998398	23.8	188.9	13.066
10/30/2024 13:43	0	6.96	0.67	307.1	1026.5	25.5	48.1	40.677101	-73.998398	23.8	188.5	13.064
10/30/2024 13:44	0.01	6.64	0.72	284.7	1026.5	25.5	47.9	40.677101	-73.998398	23.8	189.1	13.064
10/30/2024 13:45	0	6.82	0.82	308.1	1026.5	25.5	47.8	40.677101	-73.998299	23.8	189.2	13.061
10/30/2024 13:46	0	8.24	0.48	295.5	1026.6	25.6	47.7	40.677101	-73.998299	23.9	189.3	13.061
10/30/2024 13:47	0	8.63	0.62	284	1026.6	25.7	47.6	40.677101	-73.998299	23.9	188.8	13.064
10/30/2024 13:48	0	8.19	0.35	102.9	1026.5	25.8	47.4	40.677101	-73.998299	23.9	189.9	13.064
10/30/2024 13:49	0.02	7.41	0.37	101.1	1026.5	25.9	47.1	40.677101	-73.998299	24	189.7	13.064
10/30/2024 13:50	0.05	6.78	0.46	7	1026.5	26.1	46.8	40.677101	-73.998299	24.2	189.4	13.064
10/30/2024 13:51	0.02	9.02	0.43	4.9	1026.5	26.2	47.1	40.677101	-73.998299	24.5	188.9	13.069
10/30/2024 13:52	0.01	6.78	0.19	84.8	1026.6	26.3	46.5	40.677101	-73.998299	24.7	189	13.066
10/30/2024 13:53	0.01	9.02	0.51	259.6	1026.5	26.5	46.2	40.677101	-73.998299	24.8	188.5	13.055
10/30/2024 13:54	0.01	8.24	0.39	218.9	1026.5	26.4	46.1	40.677101	-73.998299	24.8	189.1	13.049
10/30/2024 13:55	0	6.85	0.36	22.1	1026.5	26.4	46	40.677101	-73.998299	25	188.9	13.061
10/30/2024 13:56	0	6.86	0.32	287.7	1026.5	26.5	45.8	40.677101	-73.998299	25	189.1	13.061
10/30/2024 13:57	0	7.28	0.3	62.5	1026.5	26.6	45.7	40.677101	-73.998299	25.2	188.6	13.061
10/30/2024 13:58	0	7.07	0.32	33.4	1026.6	26.6	45.6	40.677101	-73.998299	25.7	189	13.043
10/30/2024 13:59	0	7.16	0.4	303.1	1026.6	26.8	45.7	40.677101	-73.998299	25.8	188.9	13.049
10/30/2024 14:00	0	7.46	0.63	284.6	1026.5	26.7	45.2	40.677101	-73.998299	25.8	187.7	13.058
10/30/2024 14:01	0	6.99	0.65	346.4	1026.5	26.7	45.1	40.677101	-73.998299	25.9	188.9	13.061
10/30/2024 14:02	0	7.43	0.31	39.5	1026.5	26.8	45.3	40.677101	-73.998299	25.9	188.6	13.052
10/30/2024 14:03	0	7.31	0.47	38.2	1026.5	27	45.3	40.677101	-73.998299	26.1	188.5	13.058
10/30/2024 14:04	0	7.97	0.32	40.1	1026.5	27.1	45.6	40.677101	-73.998299	26.1	188.4	13.049
10/30/2024 14:05	0	7.67	0.62	59.9	1026.5	27.1	45.3	40.677101	-73.998299	26	189.2	13.055
10/30/2024 14:06	0	7.65	0.29	64.3	1026.5	27.2	45.1	40.677101	-73.998299	26.2	189.3	13.049
10/30/2024 14:07	0	7.68	0.24	131.4	1026.6	27.2	45.1	40.677101	-73.998299	27	188.7	13.055
10/30/2024 14:08	0.01	8.03	0.42	136.1	1026.7	27.2	44.9	40.677101	-73.998299	27.2	188.7	13.052
10/30/2024 14:09	0.01	9.2	0.71	125	1026.7	27	44.3	40.677101	-73.998299	28.1	188.9	13.046
10/30/2024 14:10	0.01	7.04	0.57	68.7	1027.2	27	44.3	40.677101	-73.998299	32.9	189.4	13.049
10/30/2024 14:11	0	7.28	0.43	129.6	1027.6	27.1	44.7	40.677101	-73.998299	35.4	188.9	13.046
10/30/2024 14:12	0	6.88	0.47	82.8	1027.6	27.1	44.2	40.677101	-73.998299	36	188.8	13.049
10/30/2024 14:13	0	7.15	0.3	51.9	1027.6	27.2	44.5	40.677101	-73.998299	36.2	188.8	13.049
10/30/2024 14:14	0	6.28	0.27	31.2	1027.5	27.3	44.4	40.677101	-73.998299	36.1	188.3	13.055

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 14:15	0	7.27	0.41	78.1	1027.6	27.3	44.5	40.677101	-73.998299	36.3	189	13.046
10/30/2024 14:16	0	6.69	0.72	70.1	1027.5	27.4	44.2	40.677101	-73.998299	36.1	188.4	13.049
10/30/2024 14:17	0	6.53	0.32	14.2	1027.5	27.4	44.8	40.677101	-73.998299	36	188.8	13.043
10/30/2024 14:18	0	7.34	0.39	28.7	1027.4	27.4	44.9	40.677101	-73.998299	35.9	188.8	13.052
10/30/2024 14:19	0	7.95	0.37	20.6	1027.4	27.5	44.9	40.677101	-73.998299	35.9	189.1	13.046
10/30/2024 14:20	0	8.29	0.29	71.3	1027.4	27.6	44.9	40.677101	-73.998299	36	189	13.043
10/30/2024 14:21	0	7.21	0.6	305	1027.4	27.6	44.6	40.677101	-73.998299	35.9	188.7	13.043
10/30/2024 14:22	0	6.64	0.57	90.2	1027.4	27.5	43.9	40.677101	-73.998299	35.9	188.8	13.052
10/30/2024 14:23	0	7.41	0.92	100.5	1027.3	27.5	43.8	40.677101	-73.998299	35.8	188.9	13.043
10/30/2024 14:24	0	8.5	0.42	297.5	1027.3	27.5	44.5	40.677101	-73.998299	35.7	189	13.043
10/30/2024 14:25	0	8.42	0.47	229.1	1027.3	27.4	44.4	40.677101	-73.998299	35.4	188.9	13.043
10/30/2024 14:26	0	6.8	0.44	171.3	1027.3	27.4	44.7	40.677101	-73.998299	35.2	189.4	13.043
10/30/2024 14:27	0	7.14	0.37	37.8	1027.2	27.4	44.7	40.677101	-73.998299	34.7	189.2	13.043
10/30/2024 14:28	0	6.93	0.45	322.9	1027.1	27.6	44.6	40.677101	-73.998299	34.4	189.5	13.043
10/30/2024 14:29	0	7	0.64	268.7	1027.1	27.5	44.3	40.677101	-73.998299	33.9	189.3	13.046
10/30/2024 14:30	0	6.8	0.45	278.3	1027	27.4	44.2	40.677101	-73.998299	33.3	189.4	13.043
10/30/2024 14:31	0	6.74	0.31	11.6	1027	27.4	44.8	40.677101	-73.998299	32.9	189.5	13.043
10/30/2024 14:32	0	6.66	0.27	67.2	1026.9	27.6	44.4	40.677101	-73.998299	32.7	189.6	13.043
10/30/2024 14:33	0	7.54	0.45	272.7	1026.9	27.6	44.8	40.677101	-73.998299	32.4	189.1	13.043
10/30/2024 14:34	0	7.13	0.43	173.4	1026.8	27.6	44.4	40.677101	-73.998299	31.9	189.6	13.049
10/30/2024 14:35	0	7.45	0.23	281.4	1026.7	27.6	44.4	40.677101	-73.998299	31.4	188.8	13.043
10/30/2024 14:36	0	7.46	0.44	341.2	1026.6	27.6	44.2	40.677101	-73.998299	29.9	189.3	13.043
10/30/2024 14:37	0	10.61	0.38	345.1	1026.4	27.8	44.4	40.677101	-73.998299	28.4	188.9	13.037
10/30/2024 14:38	0	8.77	0.44	26.1	1026.2	27.9	44.1	40.677101	-73.998299	27.2	189.6	13.04
10/30/2024 14:39	0	7.5	0.57	54.1	1026.1	28	44.1	40.677101	-73.998299	26.8	189.4	13.043
10/30/2024 14:40	0	7.51	0.32	90.3	1026.1	28.1	43.9	40.6772	-73.998299	26.4	189.2	13.043
10/30/2024 14:41	0	7.57	0.36	32	1026.1	28.2	44.1	40.6772	-73.998299	26.1	189.2	13.043
10/30/2024 14:42	0	7.67	0.39	43.9	1026	28.3	44	40.6772	-73.998299	25.4	189.4	13.043
10/30/2024 14:43	0	7.69	0.33	69.8	1025.9	28.4	43.4	40.6772	-73.998299	24.3	189.3	13.043
10/30/2024 14:44	0	9.35	0.53	255.4	1025.5	28.4	43.5	40.6772	-73.998299	21.3	189.3	13.04
10/30/2024 14:45	0	8.04	0.55	83.3	1025.3	28.3	43.5	40.6772	-73.998299	19.5	190	13.043
10/30/2024 14:46	0	8.78	0.28	168	1025.3	28.3	43.6	40.6772	-73.998299	19.9	189.8	13.043
10/30/2024 14:47	0	31.22	0.28	143.4	1025.3	28.2	43.8	40.6772	-73.998299	20	180.8	13.04
10/30/2024 14:48	0	17.08	0.41	23.7	1025.3	28.1	43	40.6772	-73.998299	20.1	179.6	13.034
10/30/2024 14:49	0	8.01	0.56	309.5	1025.3	28.2	43.2	40.6772	-73.998299	19.9	187.3	13.049
10/30/2024 14:50	0	7.55	0.82	286.9	1025.3	27.9	43	40.6772	-73.998299	19.8	186.9	13.043
10/30/2024 14:51	0	8.18	0.64	85.9	1025.2	27.9	43.4	40.6772	-73.998299	19.6	187.9	13.04
10/30/2024 14:52	0	8.86	0.43	88.9	1025.1	28.1	44.1	40.6772	-73.998299	19.2	187.8	13.034
10/30/2024 14:53	0	12.87	0.5	92.2	1025.1	28.2	44	40.6772	-73.998299	19	187.3	13.037
10/30/2024 14:54	0	14.28	0.26	90.5	1025.1	28.2	44.1	40.6772	-73.998299	19	187.3	13.04
10/30/2024 14:55	0	11.11	0.3	148.9	1025	28.2	43.5	40.6772	-73.998299	18.9	187.7	13.04
10/30/2024 14:56	0	9.57	0.63	50	1025	28.1	43.7	40.6772	-73.998299	18.7	186.7	13.028
10/30/2024 14:57	0	8.26	0.5	264.4	1025	28.1	43.6	40.6772	-73.998299	18.6	188	13.034

WSP · Luquer Street Brooklyn · 2318 (AQS1 19052023-2318)
Instrument Data export
10/30/2024 to 10/30/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP:	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (	Altitude (m	Compass (	Battery volt
10/30/2024 8:45		10.17										13.172
10/30/2024 8:46	0	9.82										13.128
10/30/2024 8:47	0	9.17										13.072
10/30/2024 8:48	0	8.4										13.046
10/30/2024 8:49												
10/30/2024 8:50												
10/30/2024 8:51												
10/30/2024 8:52	0	7.67										13.04
10/30/2024 8:53	0	7.64										13.043
10/30/2024 8:54	0.01	7.44										13.04
10/30/2024 8:55	0.01	7.47										13.04
10/30/2024 8:56	0.01	53.64										13.034
10/30/2024 8:57	0.1	23.53										13.031
10/30/2024 8:58	0.37	30.97										13.037
10/30/2024 8:59	0.56	50.45										13.037
10/30/2024 9:00	0.48	31.32										13.028
10/30/2024 9:01	0.39	24.86										13.011
10/30/2024 9:02	0.3	27.46										13.034
10/30/2024 9:03	0.21	29.33										13.034
10/30/2024 9:04	0.22	84.72										13.037
10/30/2024 9:05	0.2	52.09										13.034
10/30/2024 9:06	0.08	10.73										13.031
10/30/2024 9:07	0.02	8.64										13.034
10/30/2024 9:08	0.02	7.69										13.034
10/30/2024 9:09	0.01	7.18										13.034
10/30/2024 9:10	0	7.23										13.031
10/30/2024 9:11	0	7.74										13.031
10/30/2024 9:12	0	7.7										13.031
10/30/2024 9:13	0	7.71										13.034
10/30/2024 9:14	0	7.34										13.028
10/30/2024 9:15	0	7.51										13.034
10/30/2024 9:16	0	7.79										13.031
10/30/2024 9:17	0	7.98										13.028
10/30/2024 9:18	0	7.67										13.031
10/30/2024 9:19	0	6.85										13.037
10/30/2024 9:20	0	6.64										13.037
10/30/2024 9:21	0	6.76										13.037
10/30/2024 9:22	0	6.84										13.043
10/30/2024 9:23	0	6.85										13.028
10/30/2024 9:24	0	6.65										13.028
10/30/2024 9:25	0	6.61										13.023
10/30/2024 9:26	0	6.79										13.025
10/30/2024 9:27	0	6.94										13.023
10/30/2024 9:28	0	7.03										13.034
10/30/2024 9:29	0	6.83										13.023
10/30/2024 9:30	0	6.92										13.025
10/30/2024 9:31	0	6.82										13.025
10/30/2024 9:32	0	6.6										13.028
10/30/2024 9:33	0	6.55										13.034
10/30/2024 9:34	0	6.55										13.031
10/30/2024 9:35	0	7.33										13.028
10/30/2024 9:36	0	6.64										13.034
10/30/2024 9:37	0	6.79										13.014
10/30/2024 9:38	0	7.14										13.023
10/30/2024 9:39	0	6.84										13.025
10/30/2024 9:40	0	7.18										13.025
10/30/2024 9:41	0	7.28										13.023
10/30/2024 9:42	0	7.46										13.028
10/30/2024 9:43	0	7.45										13.019
10/30/2024 9:44	0	7.49										13.025

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 9:45	0	7.36										13.023
10/30/2024 9:46	0.01	7.61										13.008
10/30/2024 9:47	0.01	7.7										13.008
10/30/2024 9:48	0.01	7.79										13.014
10/30/2024 9:49	0.01	7.89										13.017
10/30/2024 9:50	0.01	7.5										13.014
10/30/2024 9:51	0.01	7.54										13.019
10/30/2024 9:52	0.01	7.51										13.017
10/30/2024 9:53	0.01	7.73										13.017
10/30/2024 9:54	0.01	7.86										13.014
10/30/2024 9:55	0.01	7.6										13.025
10/30/2024 9:56	0.01	7.96										13.019
10/30/2024 9:57	0.01	8.72										13.014
10/30/2024 9:58	0.01	8.2										13.017
10/30/2024 9:59	0.01	8.55										13.019
10/30/2024 10:00	0.01	11.6										13.014
10/30/2024 10:01	0.01	8.55										13.017
10/30/2024 10:02	0.01	8.14										13.017
10/30/2024 10:03	0.01	8.39										13.019
10/30/2024 10:04	0.01	7.97										13.008
10/30/2024 10:05	0.01	8.39										13.014
10/30/2024 10:06	0.01	8.13										13.017
10/30/2024 10:07	0.01	8.18										13.011
10/30/2024 10:08	0.01	8.69										13.017
10/30/2024 10:09	0.01	8.43										13.011
10/30/2024 10:10	0.01	8.37										13.017
10/30/2024 10:11	0.01	8.2										13.011
10/30/2024 10:12	0.01	8.24										13.011
10/30/2024 10:13	0.01	8.35										13.008
10/30/2024 10:14	0.01	9										13.014
10/30/2024 10:15	0.01	8.61										13.011
10/30/2024 10:16	0.01	9										13.014
10/30/2024 10:17	0.01	8.46										13.014
10/30/2024 10:18	0.01	8.59										13.017
10/30/2024 10:19	0.01	8.72										13.011
10/30/2024 10:20	0.01	11.83										13.014
10/30/2024 10:21	0.01	10.89										13.014
10/30/2024 10:22	0.01	10.1										13.011
10/30/2024 10:23	0.01	8.52										13.014
10/30/2024 10:24	0.01	8.71										13.014
10/30/2024 10:25	0.01	8.9										13.008
10/30/2024 10:26	0.01	8.72										13.008
10/30/2024 10:27	0.01	10.63										13.008
10/30/2024 10:28	0	11.99										13.011
10/30/2024 10:29	0	9.28										13.008
10/30/2024 10:30	0.01	10.32										13.008
10/30/2024 10:31	0.01	10.52										13.008
10/30/2024 10:32	0.01	10.18										13.008
10/30/2024 10:33	0.01	9.76										13.011
10/30/2024 10:34	0.01	9.65										13.008
10/30/2024 10:35	0.01	9.25										13.014
10/30/2024 10:36	0.01	9.6										13.008
10/30/2024 10:37	0.01	9.82										13.014
10/30/2024 10:38	0.01	10.44										13.011
10/30/2024 10:39	0.01	11.93										13.011
10/30/2024 10:40	0.01	9.63										13.017
10/30/2024 10:41	0.01	9.54										13.008
10/30/2024 10:42	0.01	9.68										13.014
10/30/2024 10:43	0.01	10.13										13.008
10/30/2024 10:44	0.01	10.66										13.008
10/30/2024 10:45	0.01	10.68										13.017
10/30/2024 10:46	0.01	10.93										13.008
10/30/2024 10:47	0.01	10.43										13.011
10/30/2024 10:48	0.01	10.39										13.008
10/30/2024 10:49	0.01	10.09										13.011
10/30/2024 10:50	0.01	10.19										13.008
10/30/2024 10:51	0.01	10.25										13.008

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 10:52	0.01	10.62										13.008
10/30/2024 10:53	0.01	10.48										13.008
10/30/2024 10:54	0.01	10.45										13.008
10/30/2024 10:55	0.01	10.76										13.011
10/30/2024 10:56	0.01	10.49										13.008
10/30/2024 10:57	0.01	10.72										13.011
10/30/2024 10:58	0.01	10.69										13.008
10/30/2024 10:59	0.01	10.64										13.008
10/30/2024 11:00	0.01	10.86										13.008
10/30/2024 11:01	0.01	11.04										13.014
10/30/2024 11:02	0.01	11.46										13.008
10/30/2024 11:03	0.01	10.82										13.008
10/30/2024 11:04	0.01	10.48										13.008
10/30/2024 11:05	0	10.58										13.008
10/30/2024 11:06	0	10.96										13.008
10/30/2024 11:07	0	11.05										13.008
10/30/2024 11:08	0	10.82										13.008
10/30/2024 11:09	0	10.88										13.008
10/30/2024 11:10	0	11.21										13.011
10/30/2024 11:11	0	11.2										13.008
10/30/2024 11:12	0	11.22										13.008
10/30/2024 11:13	0	11.08										13.008
10/30/2024 11:14	0	11.52										13.008
10/30/2024 11:15	0	11.12										13.008
10/30/2024 11:16	0	11										13.002
10/30/2024 11:17	0	11.25										12.993
10/30/2024 11:18	0	12.14										13.008
10/30/2024 11:19	0	11.22										13.008
10/30/2024 11:20	0.01	11.64										13.005
10/30/2024 11:21	0.01	12.41										13.005
10/30/2024 11:22	0.01	12.86										13.005
10/30/2024 11:23	0.01	11.41										13.005
10/30/2024 11:24	0.01	11.28										13.014
10/30/2024 11:25	0.01	11.2										13.008
10/30/2024 11:26	0.01	12.16										13.002
10/30/2024 11:27	0.01	11.07										13.008
10/30/2024 11:28	0.01	10.98										13.008
10/30/2024 11:29	0.01	11.55										13.008
10/30/2024 11:30	0.01	11.97										13.005
10/30/2024 11:31	0.01	12.67										13.008
10/30/2024 11:32	0.02	11.68										13.008
10/30/2024 11:33	0.01	10.86										13.008
10/30/2024 11:34	0.01	11.03										13.008
10/30/2024 11:35	0.01	11.3										13.008
10/30/2024 11:36	0.01	10.88										13.005
10/30/2024 11:37	0.01	10.4										13.002
10/30/2024 11:38	0.01	9.82										13.008
10/30/2024 11:39	0.01	10.45										13.008
10/30/2024 11:40	0.01	10.72										13.002
10/30/2024 11:41	0.01	10.7										13.005
10/30/2024 11:42	0.01	10.31										13.008
10/30/2024 11:43	0.01	10.8										13.008
10/30/2024 11:44	0.01	10.59										13.005
10/30/2024 11:45	0.01	10.72										13.005
10/30/2024 11:46	0.01	10.34										13.011
10/30/2024 11:47	0.01	10.08										13.005
10/30/2024 11:48	0.01	10.3										13.008
10/30/2024 11:49	0.01	9.93										13.008
10/30/2024 11:50	0.01	9.85										13.008
10/30/2024 11:51	0.01	9.77										13.008
10/30/2024 11:52	0	9.57										13.005
10/30/2024 11:53	0	10.89										13.005
10/30/2024 11:54	0	13.65										13.008
10/30/2024 11:55	0	11.92										13.008
10/30/2024 11:56	0	10.49										13.008
10/30/2024 11:57	0	9.79										13.005
10/30/2024 11:58	0	9.86										13.008

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 11:59	0	10.5										13.005
10/30/2024 12:00	0	10.18										13.005
10/30/2024 12:01	0.01	9.76										12.999
10/30/2024 12:02	0.01	9.67										13.005
10/30/2024 12:03	0.01	9.17										12.984
10/30/2024 12:04	0.01	8.69										12.99
10/30/2024 12:05	0	8.5										13.002
10/30/2024 12:06	0	9.23										13.005
10/30/2024 12:07	0	9.23										13.008
10/30/2024 12:08	0	8.79										13.002
10/30/2024 12:09	0	9.6										12.999
10/30/2024 12:10	0	10.29										13.002
10/30/2024 12:11	0	8.77										12.999
10/30/2024 12:12	0	8.95										12.996
10/30/2024 12:13	0	8.33										12.999
10/30/2024 12:14	0	8.17										13.002
10/30/2024 12:15	0	8.21										12.996
10/30/2024 12:16	0	7.93										12.999
10/30/2024 12:17	0	8.25										12.99
10/30/2024 12:18	0	7.95										12.996
10/30/2024 12:19	0	7.6										13.005
10/30/2024 12:20	0	7.54										12.999
10/30/2024 12:21	0	7.47										12.993
10/30/2024 12:22	0	8.15										12.99
10/30/2024 12:23	0	8.27										12.993
10/30/2024 12:24	0	8.67										12.984
10/30/2024 12:25	0	8.16										12.99
10/30/2024 12:26	0	8.28										12.99
10/30/2024 12:27	0	8.44										13.002
10/30/2024 12:28	0	8.37										12.987
10/30/2024 12:29	0	8.04										12.987
10/30/2024 12:30	0	8.01										12.99
10/30/2024 12:31	0	7.8										12.987
10/30/2024 12:32	0	8.31										12.993
10/30/2024 12:33	0	8.12										12.976
10/30/2024 12:34	0	8.28										12.979
10/30/2024 12:35	0	8.15										12.979
10/30/2024 12:36	0	8.28										12.981
10/30/2024 12:37	0	8.2										12.981
10/30/2024 12:38	0	8.2										12.976
10/30/2024 12:39	0	7.8										12.973
10/30/2024 12:40	0	7.79										12.979
10/30/2024 12:41	0	7.63										12.976
10/30/2024 12:42	0	7.75										12.979
10/30/2024 12:43	0	7.89										12.987
10/30/2024 12:44	0	7.92										12.981
10/30/2024 12:45	0	9.03										12.976
10/30/2024 12:46												
10/30/2024 12:47												
10/30/2024 12:48												
10/30/2024 12:49												
10/30/2024 12:50	0	8.3										12.973
10/30/2024 12:51	0	9.1										12.976
10/30/2024 12:52	0	8.43										12.973
10/30/2024 12:53	0	7.17										12.973
10/30/2024 12:54	0	7.43										12.976
10/30/2024 12:55	0	7.34										12.976
10/30/2024 12:56	0	7.53										12.973
10/30/2024 12:57	0	6.93										12.976
10/30/2024 12:58	0	8.48										12.973
10/30/2024 12:59	0	7.42										12.973
10/30/2024 13:00	0	8.34										12.973
10/30/2024 13:01	0	7.67										12.973
10/30/2024 13:02	0	7.34										12.973
10/30/2024 13:03	0	7.44										12.973
10/30/2024 13:04	0	7.62										12.973
10/30/2024 13:05	0	7.72										12.973

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 13:06	0	7.08										12.973
10/30/2024 13:07	0	7.57										12.973
10/30/2024 13:08	0	7.29										12.973
10/30/2024 13:09	0	8.45										12.973
10/30/2024 13:10	0	8.83										12.973
10/30/2024 13:11	0	9.06										12.973
10/30/2024 13:12	0	8.01										12.973
10/30/2024 13:13	0	7.41										12.973
10/30/2024 13:14	0	7.76										12.976
10/30/2024 13:15	0	7.77										12.973
10/30/2024 13:16	0	7.15										12.961
10/30/2024 13:17	0	6.71										12.976
10/30/2024 13:18	0	7.45										12.967
10/30/2024 13:19	0	7.52										12.94
10/30/2024 13:20	0	7.59										12.973
10/30/2024 13:21	0	8.15										12.97
10/30/2024 13:22	0	8.02										12.964
10/30/2024 13:23	0	6.97										12.961
10/30/2024 13:24	0	6.95										12.958
10/30/2024 13:25	0	8.95										12.97
10/30/2024 13:26	0	8.45										12.967
10/30/2024 13:27	0	7.22										12.967
10/30/2024 13:28	0	7.01										12.961
10/30/2024 13:29	0	7.22										12.961
10/30/2024 13:30	0	6.78										12.946
10/30/2024 13:31	0	6.47										12.946
10/30/2024 13:32	0	6.58										12.943
10/30/2024 13:33	0	8.29										12.938
10/30/2024 13:34	0	9.65										12.94
10/30/2024 13:35	0	8.66										12.946
10/30/2024 13:36	0	7.43										12.938
10/30/2024 13:37	0	8.5										12.943
10/30/2024 13:38	0	8.06										12.943
10/30/2024 13:39	0	7.46										12.938
10/30/2024 13:40	0	7.53										12.938
10/30/2024 13:41	0	7.36										12.94
10/30/2024 13:42	0	6.72										12.94
10/30/2024 13:43	0	6.13										12.938
10/30/2024 13:44	0.01	6.21										12.938
10/30/2024 13:45	0.01	6.25										12.938
10/30/2024 13:46	0	8										12.938
10/30/2024 13:47	0	7.89										12.938
10/30/2024 13:48	0	6.77										12.938
10/30/2024 13:49	0	6.9										12.938
10/30/2024 13:50	0	6.78										12.938
10/30/2024 13:51	0	6.96										12.938
10/30/2024 13:52	0	6.69										12.938
10/30/2024 13:53	0	9.15										12.94
10/30/2024 13:54	0	8.83										12.938
10/30/2024 13:55	0	7.28										12.938
10/30/2024 13:56	0	6.1										12.938
10/30/2024 13:57	0	6.47										12.935
10/30/2024 13:58	0	6.16										12.914
10/30/2024 13:59	0	6.16										12.914
10/30/2024 14:00	0	6.76										12.935
10/30/2024 14:01	0	6.64										12.938
10/30/2024 14:02	0	6.43										12.938
10/30/2024 14:03	0	6.49										12.929
10/30/2024 14:04	0	7.55										12.935
10/30/2024 14:05	0	7.29										12.932
10/30/2024 14:06	0	7.27										12.929
10/30/2024 14:07	0	10.14										12.932
10/30/2024 14:08	0	9.6										12.932
10/30/2024 14:09	0	8.11										12.932
10/30/2024 14:10	0	6.79										12.932
10/30/2024 14:11	0	6.83										12.917
10/30/2024 14:12	0	6.43										12.923

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)
10/30/2024 14:13	0	6.61										12.908
10/30/2024 14:14	0	6.18										12.929
10/30/2024 14:15	0.01	6.87										12.911
10/30/2024 14:16	0.01	6.18										12.92
10/30/2024 14:17	0	6.1										12.92
10/30/2024 14:18	0	6.7										12.911
10/30/2024 14:19	0	7.87										12.905
10/30/2024 14:20	0	7.85										12.92
10/30/2024 14:21	0	6.67										12.908
10/30/2024 14:22	0	6.22										12.902
10/30/2024 14:23	0	6.86										12.914
10/30/2024 14:24	0	8										12.911
10/30/2024 14:25	0	8.97										12.914
10/30/2024 14:26	0	6.69										12.905
10/30/2024 14:27	0	7.56										12.908
10/30/2024 14:28	0	6.73										12.905
10/30/2024 14:29	0	7.05										12.902
10/30/2024 14:30	0	6.35										12.905
10/30/2024 14:31	0	6.84										12.902
10/30/2024 14:32	0	6.78										12.908
10/30/2024 14:33	0	6.81										12.905
10/30/2024 14:34	0	6.63										12.902
10/30/2024 14:35	0	6.68										12.902
10/30/2024 14:36	0	7.09										12.902
10/30/2024 14:37	0	8.08										12.902
10/30/2024 14:38	0	8.65										12.899
10/30/2024 14:39	0	6.99										12.894
10/30/2024 14:40	0	6.89										12.905
10/30/2024 14:41	0	7.07										12.902
10/30/2024 14:42	0	7.19										12.902
10/30/2024 14:43	0	7.3										12.902
10/30/2024 14:44	0	8.69										12.902
10/30/2024 14:45	0	7.48										12.896
10/30/2024 14:46	0	7										12.905
10/30/2024 14:47	0	14.34										12.902
10/30/2024 14:48	0	13.09										12.902
10/30/2024 14:49	0	7.48										12.902
10/30/2024 14:50	0	7.01										12.902
10/30/2024 14:51	0	7.63										12.902
10/30/2024 14:52	0	8.86										12.902
10/30/2024 14:53	0	9.65										12.899
10/30/2024 14:54	0	9.72										12.902
10/30/2024 14:55	0	8.37										12.902
10/30/2024 14:56	0	8.94										12.899
10/30/2024 14:57	0	8.51										12.902

WSP · Luquer Street Brooklyn · 2319 (AQS1 19052023-2319)
Instrument Data export
10/30/2024 to 10/30/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 8:45		8.66					
10/30/2024 8:46	0	8.73					
10/30/2024 8:47	0	8.64					
10/30/2024 8:48	0	9.22					
10/30/2024 8:49							
10/30/2024 8:50							
10/30/2024 8:51							
10/30/2024 8:52	0	7.71					
10/30/2024 8:53	0	7.52					
10/30/2024 8:54	0	7.25					
10/30/2024 8:55	0	8.99					
10/30/2024 8:56	0	31.5					
10/30/2024 8:57	0.07	153.96					
10/30/2024 8:58	0.14	85.38					
10/30/2024 8:59	0.12	26.89					
10/30/2024 9:00	0.14	85.46					
10/30/2024 9:01	0.12	22.99					
10/30/2024 9:02	0.18	36.14					
10/30/2024 9:03	0.4	145.29					
10/30/2024 9:04	0.42	114.67					
10/30/2024 9:05	0.18	8.81					
10/30/2024 9:06	0.01	10.43					
10/30/2024 9:07	0.03	7.6					
10/30/2024 9:08	0.02	7.13					
10/30/2024 9:09	0	7.18					
10/30/2024 9:10	0	7.19					
10/30/2024 9:11	0	7.63					
10/30/2024 9:12	0	7.58					
10/30/2024 9:13	0	7.6					
10/30/2024 9:14	0	7.54					
10/30/2024 9:15	0	7.66					
10/30/2024 9:16	0	8.07					
10/30/2024 9:17	0	8.26					
10/30/2024 9:18	0	7.41					
10/30/2024 9:19	0	6.97					
10/30/2024 9:20	0	6.61					
10/30/2024 9:21	0	6.79					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 9:22	0	6.99					
10/30/2024 9:23	0	6.93					
10/30/2024 9:24	0	6.99					
10/30/2024 9:25	0	6.78					
10/30/2024 9:26	0	7.07					
10/30/2024 9:27	0	6.82					
10/30/2024 9:28	0	6.78					
10/30/2024 9:29	0	6.72					
10/30/2024 9:30	0	6.64					
10/30/2024 9:31	0	6.76					
10/30/2024 9:32	0	6.46					
10/30/2024 9:33	0	6.88					
10/30/2024 9:34	0	6.76					
10/30/2024 9:35	0	6.99					
10/30/2024 9:36	0	6.7					
10/30/2024 9:37	0	6.62					
10/30/2024 9:38	0	7.1					
10/30/2024 9:39	0	6.8					
10/30/2024 9:40	0	7.13					
10/30/2024 9:41	0	7.42					
10/30/2024 9:42	0	7.05					
10/30/2024 9:43	0	7.36					
10/30/2024 9:44	0	7.38					
10/30/2024 9:45	0	7.54					
10/30/2024 9:46	0	7.59					
10/30/2024 9:47	0	7.55					
10/30/2024 9:48	0	7.68					
10/30/2024 9:49	0	7.77					
10/30/2024 9:50	0	7.52					
10/30/2024 9:51	0	7.51					
10/30/2024 9:52	0	7.61					
10/30/2024 9:53	0	7.72					
10/30/2024 9:54	0.01	7.9					
10/30/2024 9:55	0	7.68					
10/30/2024 9:56	0	7.87					
10/30/2024 9:57	0	8.76					
10/30/2024 9:58	0	9.35					
10/30/2024 9:59	0	8.93					
10/30/2024 10:00	0	10.93					
10/30/2024 10:01	0	9.04					
10/30/2024 10:02	0	8.36					
10/30/2024 10:03	0	8.29					
10/30/2024 10:04	0	8.05					
10/30/2024 10:05	0	7.85					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 10:06	0	8.09					
10/30/2024 10:07	0	8.39					
10/30/2024 10:08	0	8.46					
10/30/2024 10:09	0	8.31					
10/30/2024 10:10	0	8.26					
10/30/2024 10:11	0	8.18					
10/30/2024 10:12	0	8.49					
10/30/2024 10:13	0	8.39					
10/30/2024 10:14	0	10.6					
10/30/2024 10:15	0	12.03					
10/30/2024 10:16	0	8.89					
10/30/2024 10:17	0	8.3					
10/30/2024 10:18	0	8.65					
10/30/2024 10:19	0	8.29					
10/30/2024 10:20	0	10.71					
10/30/2024 10:21	0	11.63					
10/30/2024 10:22	0	10.4					
10/30/2024 10:23	0	9.33					
10/30/2024 10:24	0	10.44					
10/30/2024 10:25	0	8.63					
10/30/2024 10:26	0	8.81					
10/30/2024 10:27	0	10.53					
10/30/2024 10:28	0	10.67					
10/30/2024 10:29	0	9.24					
10/30/2024 10:30	0	9.84					
10/30/2024 10:31	0	10.21					
10/30/2024 10:32	0	9.51					
10/30/2024 10:33	0	10.43					
10/30/2024 10:34	0	9.24					
10/30/2024 10:35	0	9.88					
10/30/2024 10:36	0	10.3					
10/30/2024 10:37	0	11.78					
10/30/2024 10:38	0	10.41					
10/30/2024 10:39	0	12.29					
10/30/2024 10:40	0	10.85					
10/30/2024 10:41	0	9.93					
10/30/2024 10:42	0	10.04					
10/30/2024 10:43	0	10.33					
10/30/2024 10:44	0	9.97					
10/30/2024 10:45	0	13.07					
10/30/2024 10:46	0	10.71					
10/30/2024 10:47	0	10.06					
10/30/2024 10:48	0	9.36					
10/30/2024 10:49	0	9.64					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 10:50	0	9.63					
10/30/2024 10:51	0	9.73					
10/30/2024 10:52	0	9.86					
10/30/2024 10:53	0	9.77					
10/30/2024 10:54	0	9.76					
10/30/2024 10:55	0	9.77					
10/30/2024 10:56	0	9.94					
10/30/2024 10:57	0	11.2					
10/30/2024 10:58	0	10.44					
10/30/2024 10:59	0	9.93					
10/30/2024 11:00	0	10.53					
10/30/2024 11:01	0	11.06					
10/30/2024 11:02	0	12.16					
10/30/2024 11:03	0	13.28					
10/30/2024 11:04	0	13.42					
10/30/2024 11:05	0	10.96					
10/30/2024 11:06	0	10.01					
10/30/2024 11:07	0	10.31					
10/30/2024 11:08	0	10.64					
10/30/2024 11:09	0	11.37					
10/30/2024 11:10	0	11.16					
10/30/2024 11:11	0	13.78					
10/30/2024 11:12	0	12.99					
10/30/2024 11:13	0	10.96					
10/30/2024 11:14	0	13.36					
10/30/2024 11:15	0	10.64					
10/30/2024 11:16	0	10.77					
10/30/2024 11:17	0	16.23					
10/30/2024 11:18	0	14.45					
10/30/2024 11:19	0	12.05					
10/30/2024 11:20	0	11.9					
10/30/2024 11:21	0	14.78					
10/30/2024 11:22	0	14.73					
10/30/2024 11:23	0	11.34					
10/30/2024 11:24	0	11.15					
10/30/2024 11:25	0	11.97					
10/30/2024 11:26	0.01	11.25					
10/30/2024 11:27	0	10.85					
10/30/2024 11:28	0	11.29					
10/30/2024 11:29	0	10.61					
10/30/2024 11:30	0	11.47					
10/30/2024 11:31	0	13.59					
10/30/2024 11:32	0	14.79					
10/30/2024 11:33	0	11.61					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 11:34	0	12.38					
10/30/2024 11:35	0	12.31					
10/30/2024 11:36	0	10.7					
10/30/2024 11:37	0	10.74					
10/30/2024 11:38	0	13.89					
10/30/2024 11:39	0	13.7					
10/30/2024 11:40	0	12.3					
10/30/2024 11:41	0	11.89					
10/30/2024 11:42	0	12.59					
10/30/2024 11:43	0	11.74					
10/30/2024 11:44	0	11.76					
10/30/2024 11:45	0	10.28					
10/30/2024 11:46	0	9.5					
10/30/2024 11:47	0	12.21					
10/30/2024 11:48	0	12.54					
10/30/2024 11:49	0	12.06					
10/30/2024 11:50	0	10.17					
10/30/2024 11:51	0	9.36					
10/30/2024 11:52	0	10.84					
10/30/2024 11:53	0	10.41					
10/30/2024 11:54	0	11.54					
10/30/2024 11:55	0	11.1					
10/30/2024 11:56	0	10.17					
10/30/2024 11:57	0	8.91					
10/30/2024 11:58	0	9.23					
10/30/2024 11:59	0	9.46					
10/30/2024 12:00	0	9.06					
10/30/2024 12:01	0	9.06					
10/30/2024 12:02	0	8.7					
10/30/2024 12:03	0	8.45					
10/30/2024 12:04	0	8.16					
10/30/2024 12:05	0	7.98					
10/30/2024 12:06	0	8.95					
10/30/2024 12:07	0	8.54					
10/30/2024 12:08	0	8.14					
10/30/2024 12:09	0	8.63					
10/30/2024 12:10	0	9.54					
10/30/2024 12:11	0	7.73					
10/30/2024 12:12	0	7.65					
10/30/2024 12:13	0	7.56					
10/30/2024 12:14	0	7.45					
10/30/2024 12:15	0	7.21					
10/30/2024 12:16	0	7.16					
10/30/2024 12:17	0	7.53					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 12:18	0	7.14					
10/30/2024 12:19	0	7.39					
10/30/2024 12:20	0	7.29					
10/30/2024 12:21	0	7.42					
10/30/2024 12:22	0	7.61					
10/30/2024 12:23	0	7.58					
10/30/2024 12:24	0	7.73					
10/30/2024 12:25	0	7.26					
10/30/2024 12:26	0	7.52					
10/30/2024 12:27	0	7.43					
10/30/2024 12:28	0	7.2					
10/30/2024 12:29	0	7.2					
10/30/2024 12:30	0	7.27					
10/30/2024 12:31	0	7.34					
10/30/2024 12:32	0	7.04					
10/30/2024 12:33	0	6.95					
10/30/2024 12:34	0	7.78					
10/30/2024 12:35	0	7.66					
10/30/2024 12:36	0	7.38					
10/30/2024 12:37	0	7.08					
10/30/2024 12:38	0	7.22					
10/30/2024 12:39	0	7.4					
10/30/2024 12:40	0	6.96					
10/30/2024 12:41	0	6.89					
10/30/2024 12:42	0	6.91					
10/30/2024 12:43	0	6.88					
10/30/2024 12:44	0	7.13					
10/30/2024 12:45	0	8.11					
10/30/2024 12:46							
10/30/2024 12:47							
10/30/2024 12:48							
10/30/2024 12:49							
10/30/2024 12:50	0	7.61					
10/30/2024 12:51	0	9.05					
10/30/2024 12:52	0	7.89					
10/30/2024 12:53	0	6.78					
10/30/2024 12:54	0	7.37					
10/30/2024 12:55	0	7.53					
10/30/2024 12:56	0	7.13					
10/30/2024 12:57	0	6.72					
10/30/2024 12:58	0	7.3					
10/30/2024 12:59	0	6.73					
10/30/2024 13:00	0	7.74					
10/30/2024 13:01	0	7.73					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 13:02	0	7.6					
10/30/2024 13:03	0	7.01					
10/30/2024 13:04	0	6.89					
10/30/2024 13:05	0	6.99					
10/30/2024 13:06	0	6.66					
10/30/2024 13:07	0	7.16					
10/30/2024 13:08	0	6.45					
10/30/2024 13:09	0	7.88					
10/30/2024 13:10	0	7.99					
10/30/2024 13:11	0	9.39					
10/30/2024 13:12	0	10.16					
10/30/2024 13:13	0	6.91					
10/30/2024 13:14	0	7.43					
10/30/2024 13:15	0	7.42					
10/30/2024 13:16	0	6.57					
10/30/2024 13:17	0	6.45					
10/30/2024 13:18	0	6.65					
10/30/2024 13:19	0	7.35					
10/30/2024 13:20	0	7.58					
10/30/2024 13:21	0	7.68					
10/30/2024 13:22	0	8.03					
10/30/2024 13:23	0	6.62					
10/30/2024 13:24	0	6.35					
10/30/2024 13:25	0	7.93					
10/30/2024 13:26	0	7.82					
10/30/2024 13:27	0	11.57					
10/30/2024 13:28	0	11.58					
10/30/2024 13:29	0	8.85					
10/30/2024 13:30	0	7.56					
10/30/2024 13:31	0	7.15					
10/30/2024 13:32	0	7.7					
10/30/2024 13:33	0	9.52					
10/30/2024 13:34	0	8.54					
10/30/2024 13:35	0	9.78					
10/30/2024 13:36	0	9.32					
10/30/2024 13:37	0	9.87					
10/30/2024 13:38	0	10.8					
10/30/2024 13:39	0	12.63					
10/30/2024 13:40	0	11.87					
10/30/2024 13:41	0	13.52					
10/30/2024 13:42	0	10.9					
10/30/2024 13:43	0	10.35					
10/30/2024 13:44	0	12.15					
10/30/2024 13:45	0	12.43					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 13:46	0	15.48					
10/30/2024 13:47	0	15.85					
10/30/2024 13:48	0	9.52					
10/30/2024 13:49	0	11.02					
10/30/2024 13:50	0	7.97					
10/30/2024 13:51	0	10.43					
10/30/2024 13:52	0	8.91					
10/30/2024 13:53	0	10.83					
10/30/2024 13:54	0	13.11					
10/30/2024 13:55	0	8.52					
10/30/2024 13:56	0	8.96					
10/30/2024 13:57	0	8.25					
10/30/2024 13:58	0	9.41					
10/30/2024 13:59	0	8.33					
10/30/2024 14:00	0	9.33					
10/30/2024 14:01	0	7.35					
10/30/2024 14:02	0	9.54					
10/30/2024 14:03	0	7.58					
10/30/2024 14:04	0	9.83					
10/30/2024 14:05	0	9.34					
10/30/2024 14:06	0	9.4					
10/30/2024 14:07	0	9.11					
10/30/2024 14:08	0	9.93					
10/30/2024 14:09	0	8.4					
10/30/2024 14:10	0	6.93					
10/30/2024 14:11	0	6.87					
10/30/2024 14:12	0	6.41					
10/30/2024 14:13	0	6.43					
10/30/2024 14:14	0	6.03					
10/30/2024 14:15	0	6.28					
10/30/2024 14:16	0	7.02					
10/30/2024 14:17	0	8.13					
10/30/2024 14:18	0	8.54					
10/30/2024 14:19	0	9.35					
10/30/2024 14:20	0	9.97					
10/30/2024 14:21	0	8.52					
10/30/2024 14:22	0	8.77					
10/30/2024 14:23	0	6.72					
10/30/2024 14:24	0	8.24					
10/30/2024 14:25	0	9.83					
10/30/2024 14:26	0	8.01					
10/30/2024 14:27	0.02	9.34					
10/30/2024 14:28	0.03	7.66					
10/30/2024 14:29	0.01	9.05					

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)
10/30/2024 14:30	0	8.92					
10/30/2024 14:31	0	13.69					
10/30/2024 14:32	0	10.94					
10/30/2024 14:33	0	7.17					
10/30/2024 14:34	0	6.95					
10/30/2024 14:35	0	6.54					
10/30/2024 14:36	0	7.01					
10/30/2024 14:37	0	9.01					
10/30/2024 14:38	0	9.19					
10/30/2024 14:39	0	7.38					
10/30/2024 14:40	0	7.07					
10/30/2024 14:41	0	7.6					
10/30/2024 14:42	0	7.95					
10/30/2024 14:43	0	7.79					
10/30/2024 14:44	0	8.88					
10/30/2024 14:45	0	8.08					
10/30/2024 14:46	0	7.13					
10/30/2024 14:47	0	15.01					
10/30/2024 14:48	0	15.07					
10/30/2024 14:49	0	7.56					
10/30/2024 14:50	0	7.03					
10/30/2024 14:51	0	7.26					
10/30/2024 14:52	0	11.31					
10/30/2024 14:53	0	10.85					
10/30/2024 14:54	0	9.85					
10/30/2024 14:55	0	8.88					
10/30/2024 14:56	0	8.82					
10/30/2024 14:57	0	8.21					

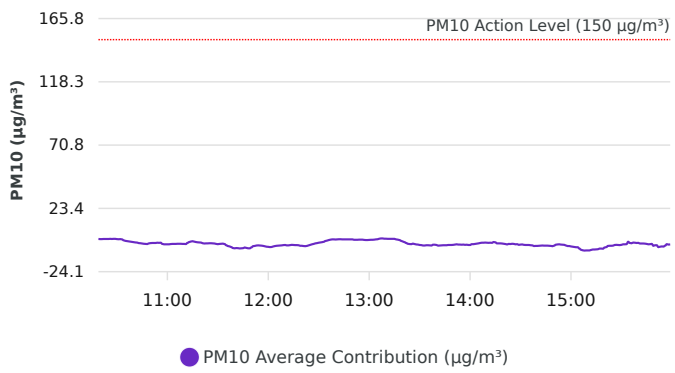
	Air Monitoring Report	Luquer Street Brooklyn	
		Report Period	
		From:	10/31/2024 07:00
		To:	10/31/2024 16:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
10/31/2024	72.5-89.4	36.7-61.7	30.1-30.3	0.3-2.5	ESE

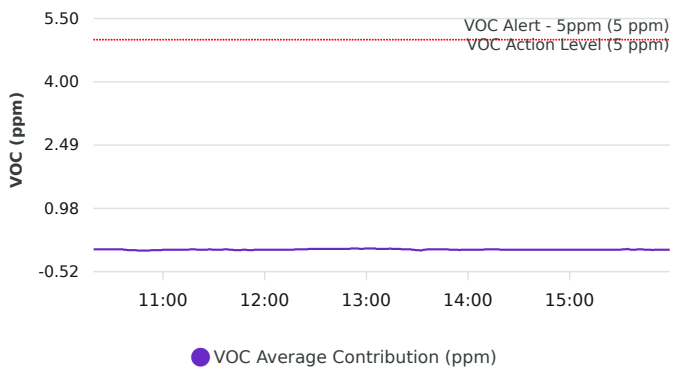
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 10/31/2024	-8.3	15:08	-0.02	10:45
Max Contribution (15 min avg.) - 10/31/2024	0.8	13:07	0.03	12:51



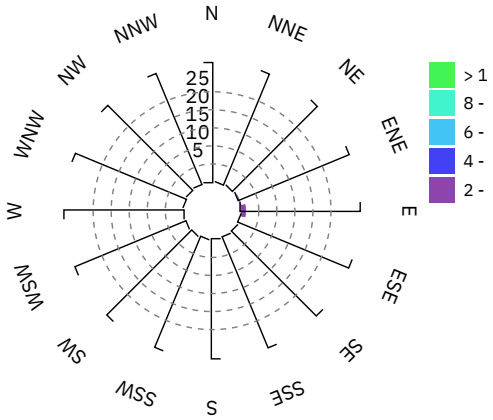
PM10 Average Contribution (µg/m³)



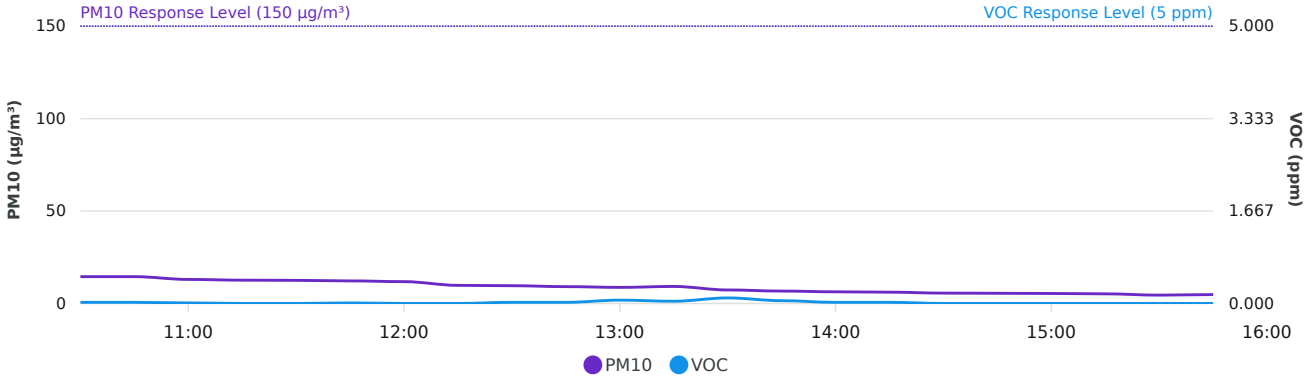
VOC Average Contribution (ppm)



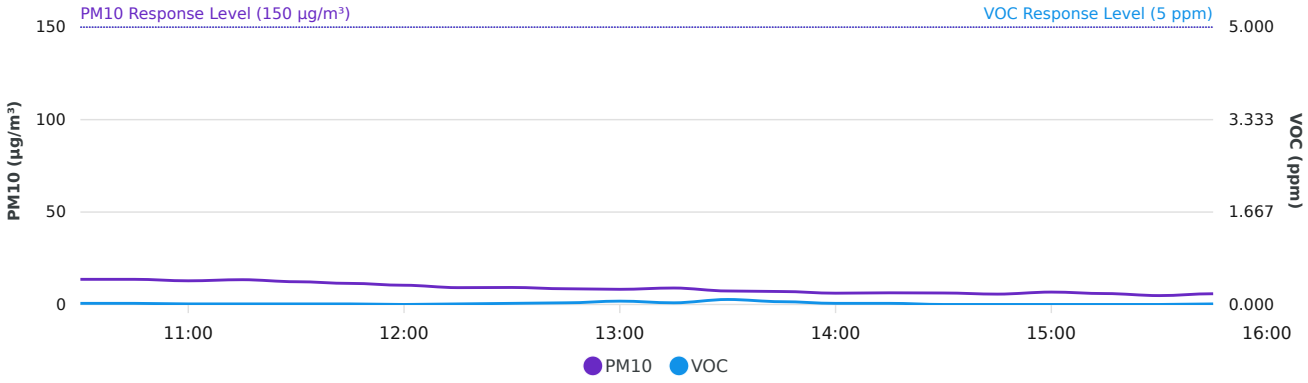
Contribution wind rose (mph)



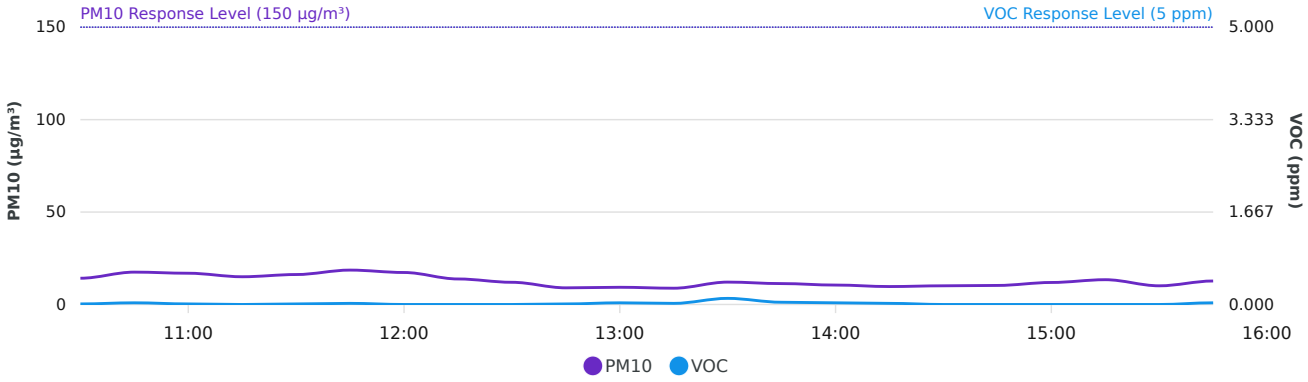
CLMW-05SI-2317



CLMW-05SI-2318



CLMW-05SI-2319



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 10:19:00	13.8	14.3	0.4	0.02	0.03	0.01	0.8	ESE
10/31/2024 10:20:00	14.0	14.2	0.3	0.02	0.02	0.01	0.9	E
10/31/2024 10:21:00	14.0	14.3	0.3	0.01	0.02	0.01	0.8	SE
10/31/2024 10:22:00	13.9	14.3	0.4	0.01	0.02	0.01	0.8	ESE
10/31/2024 10:23:00	13.8	14.3	0.4	0.01	0.02	0.01	0.9	E
10/31/2024 10:24:00	13.9	14.3	0.4	0.01	0.02	0.01	0.9	E
10/31/2024 10:25:00	13.9	14.4	0.4	0.01	0.02	0.01	0.9	ESE
10/31/2024 10:26:00	14.0	14.4	0.5	0.01	0.02	0.01	0.9	ESE
10/31/2024 10:27:00	14.0	14.5	0.4	0.01	0.02	0.01	0.8	ESE
10/31/2024 10:28:00	14.0	14.5	0.5	0.01	0.02	0.01	0.8	ESE
10/31/2024 10:29:00	14.0	14.5	0.5	0.01	0.02	0.01	0.8	SSE
10/31/2024 10:30:00	14.2	14.5	0.3	0.01	0.02	0.01	0.8	SSE
10/31/2024 10:31:00	14.3	14.6	0.2	0.01	0.02	0.01	0.7	SE
10/31/2024 10:32:00	14.3	14.6	0.3	0.01	0.02	0.01	0.7	E
10/31/2024 10:33:00	14.5	14.6	0.1	0.01	0.02	0.01	0.7	SSE
10/31/2024 10:34:00	15.3	14.7	-0.6	0.01	0.02	0.01	0.7	ESE
10/31/2024 10:35:00	15.7	14.7	-1.0	0.01	0.02	0.01	0.7	E
10/31/2024 10:36:00	16.0	14.8	-1.2	0.01	0.02	0.01	0.7	E
10/31/2024 10:37:00	16.2	14.8	-1.4	0.02	0.02	0.00	0.7	E
10/31/2024 10:38:00	16.4	14.8	-1.6	0.02	0.02	0.00	0.7	ESE
10/31/2024 10:39:00	16.6	14.8	-1.8	0.03	0.02	-0.01	0.7	SE
10/31/2024 10:40:00	16.7	14.8	-2.0	0.03	0.02	-0.01	0.7	SE
10/31/2024 10:41:00	16.9	14.7	-2.2	0.03	0.02	-0.01	0.7	SE
10/31/2024 10:42:00	17.1	14.7	-2.3	0.03	0.02	-0.01	0.7	SSE
10/31/2024 10:43:00	17.3	14.6	-2.7	0.03	0.02	-0.01	0.7	E
10/31/2024 10:44:00	17.4	14.6	-2.8	0.03	0.02	-0.01	0.7	ESE
10/31/2024 10:45:00	17.5	14.5	-3.0	0.03	0.02	-0.02	0.8	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 10:46:00	17.5	14.4	-3.2	0.04	0.02	-0.02	0.8	SE
10/31/2024 10:47:00	17.6	14.2	-3.3	0.04	0.02	-0.02	0.8	ESE
10/31/2024 10:48:00	17.4	14.1	-3.4	0.04	0.02	-0.02	0.8	E
10/31/2024 10:49:00	16.8	13.9	-2.9	0.04	0.02	-0.02	0.9	E
10/31/2024 10:50:00	16.4	13.7	-2.7	0.04	0.02	-0.02	0.9	ESE
10/31/2024 10:51:00	16.2	13.6	-2.6	0.03	0.01	-0.02	0.9	ENE
10/31/2024 10:52:00	16.2	13.5	-2.6	0.03	0.01	-0.02	0.8	ENE
10/31/2024 10:53:00	16.1	13.6	-2.6	0.03	0.01	-0.01	0.8	SE
10/31/2024 10:54:00	16.2	13.8	-2.4	0.02	0.01	-0.01	0.9	SE
10/31/2024 10:55:00	16.2	13.7	-2.5	0.02	0.01	-0.01	0.9	ESE
10/31/2024 10:56:00	16.1	13.7	-2.4	0.02	0.01	-0.01	0.9	ESE
10/31/2024 10:57:00	16.8	13.5	-3.3	0.02	0.01	-0.01	1.0	ESE
10/31/2024 10:58:00	17.0	13.4	-3.6	0.02	0.01	-0.01	0.9	SE
10/31/2024 10:59:00	17.0	13.4	-3.6	0.02	0.01	-0.01	0.9	ESE
10/31/2024 11:00:00	16.9	13.3	-3.6	0.01	0.01	0.00	0.9	E
10/31/2024 11:01:00	16.8	13.2	-3.6	0.01	0.01	0.00	1.0	E
10/31/2024 11:02:00	16.7	13.2	-3.4	0.01	0.01	0.00	1.0	ESE
10/31/2024 11:03:00	16.5	13.3	-3.3	0.01	0.01	0.00	1.0	ESE
10/31/2024 11:04:00	16.6	13.3	-3.3	0.01	0.01	0.00	0.9	E
10/31/2024 11:05:00	16.6	13.3	-3.3	0.01	0.01	0.00	0.9	SE
10/31/2024 11:06:00	16.5	13.3	-3.2	0.01	0.01	0.00	0.9	S
10/31/2024 11:07:00	16.3	13.1	-3.2	0.01	0.00	0.00	0.9	ESE
10/31/2024 11:08:00	16.1	13.0	-3.2	0.00	0.00	0.00	0.9	SE
10/31/2024 11:09:00	15.9	12.6	-3.3	0.00	0.00	0.00	0.9	SE
10/31/2024 11:10:00	15.8	12.5	-3.3	0.00	0.00	0.00	0.9	SSE
10/31/2024 11:11:00	15.8	12.4	-3.4	0.00	0.00	0.00	0.8	ESE
10/31/2024 11:12:00	15.0	12.6	-2.5	0.00	0.00	0.00	0.8	SE
10/31/2024 11:13:00	14.7	12.9	-1.9	0.00	0.00	0.00	0.8	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 11:14:00	14.8	13.3	-1.5	0.00	0.00	0.00	0.8	SE
10/31/2024 11:15:00	15.0	13.7	-1.3	0.00	0.01	0.00	0.8	SSE
10/31/2024 11:16:00	15.6	14.0	-1.6	0.00	0.01	0.01	0.8	E
10/31/2024 11:17:00	15.9	14.0	-1.9	0.01	0.01	0.01	0.8	ESE
10/31/2024 11:18:00	16.2	14.0	-2.1	0.01	0.01	0.01	0.8	ESE
10/31/2024 11:19:00	16.2	14.0	-2.2	0.01	0.01	0.01	0.8	ESE
10/31/2024 11:20:00	16.3	14.0	-2.3	0.01	0.01	0.00	0.8	ENE
10/31/2024 11:21:00	16.8	14.0	-2.8	0.01	0.01	0.00	0.8	SE
10/31/2024 11:22:00	17.0	14.0	-3.0	0.01	0.01	0.00	0.8	ESE
10/31/2024 11:23:00	17.0	14.1	-2.9	0.01	0.02	0.00	0.8	E
10/31/2024 11:24:00	17.0	14.1	-2.9	0.01	0.02	0.00	0.8	E
10/31/2024 11:25:00	17.0	14.2	-2.8	0.01	0.02	0.00	0.9	SE
10/31/2024 11:26:00	17.0	14.2	-2.8	0.01	0.02	0.00	0.8	S
10/31/2024 11:27:00	16.8	14.0	-2.9	0.01	0.02	0.01	0.9	ESE
10/31/2024 11:28:00	16.6	13.6	-3.0	0.01	0.02	0.01	1.0	ESE
10/31/2024 11:29:00	16.5	13.1	-3.3	0.01	0.02	0.00	1.0	E
10/31/2024 11:30:00	16.2	12.7	-3.5	0.01	0.01	0.00	1.1	SE
10/31/2024 11:31:00	15.7	12.4	-3.3	0.01	0.01	0.00	1.0	S
10/31/2024 11:32:00	15.5	12.4	-3.2	0.01	0.01	0.00	1.1	E
10/31/2024 11:33:00	15.5	12.3	-3.1	0.01	0.01	0.00	1.1	E
10/31/2024 11:34:00	15.7	12.3	-3.4	0.01	0.01	0.00	1.2	ESE
10/31/2024 11:35:00	16.5	12.2	-4.3	0.01	0.01	0.00	1.2	E
10/31/2024 11:36:00	17.2	12.2	-4.9	0.00	0.01	0.01	1.2	E
10/31/2024 11:37:00	17.5	12.3	-5.2	0.00	0.01	0.01	1.3	ESE
10/31/2024 11:38:00	18.0	12.3	-5.7	0.01	0.01	0.01	1.2	SE
10/31/2024 11:39:00	18.5	12.1	-6.4	0.01	0.01	0.00	1.2	ESE
10/31/2024 11:40:00	18.6	12.0	-6.6	0.02	0.01	0.00	1.2	E
10/31/2024 11:41:00	18.4	12.0	-6.4	0.02	0.01	0.00	1.3	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 11:42:00	18.5	12.0	-6.5	0.02	0.01	-0.01	1.3	ESE
10/31/2024 11:43:00	18.7	12.0	-6.7	0.02	0.01	-0.01	1.2	ESE
10/31/2024 11:44:00	18.6	12.0	-6.6	0.02	0.01	-0.01	1.2	ESE
10/31/2024 11:45:00	18.6	12.2	-6.5	0.02	0.01	-0.01	1.2	ESE
10/31/2024 11:46:00	18.7	12.6	-6.0	0.02	0.01	-0.01	1.2	ESE
10/31/2024 11:47:00	19.0	12.7	-6.3	0.02	0.01	0.00	1.2	E
10/31/2024 11:48:00	19.2	12.6	-6.6	0.02	0.01	0.00	1.2	ESE
10/31/2024 11:49:00	19.3	12.7	-6.6	0.02	0.01	0.00	1.1	ESE
10/31/2024 11:50:00	18.5	12.6	-5.9	0.02	0.01	-0.01	1.2	E
10/31/2024 11:51:00	17.5	12.5	-5.0	0.02	0.01	-0.01	1.2	E
10/31/2024 11:52:00	17.2	12.5	-4.8	0.02	0.01	-0.01	1.2	ESE
10/31/2024 11:53:00	16.9	12.4	-4.5	0.01	0.01	-0.01	1.3	E
10/31/2024 11:54:00	16.8	12.4	-4.4	0.01	0.01	0.00	1.3	E
10/31/2024 11:55:00	16.9	12.4	-4.5	0.00	0.01	0.00	1.2	SE
10/31/2024 11:56:00	17.0	12.4	-4.6	0.00	0.01	0.00	1.2	S
10/31/2024 11:57:00	17.1	12.3	-4.8	0.00	0.01	0.00	1.2	E
10/31/2024 11:58:00	17.3	12.2	-5.1	0.00	0.01	0.00	1.2	E
10/31/2024 11:59:00	17.4	12.0	-5.4	0.00	0.01	0.00	1.2	E
10/31/2024 12:00:00	17.3	11.8	-5.5	0.00	0.01	0.00	1.2	ESE
10/31/2024 12:01:00	17.2	11.4	-5.7	0.00	0.00	0.00	1.2	E
10/31/2024 12:02:00	16.9	11.4	-5.6	0.00	0.00	0.00	1.2	ESE
10/31/2024 12:03:00	16.5	11.2	-5.2	0.00	0.00	0.00	1.2	ENE
10/31/2024 12:04:00	16.0	11.0	-4.9	0.00	0.00	0.00	1.2	SE
10/31/2024 12:05:00	15.7	10.9	-4.7	0.00	0.00	0.00	1.1	E
10/31/2024 12:06:00	15.5	10.9	-4.6	0.00	0.00	0.00	1.1	E
10/31/2024 12:07:00	15.2	10.7	-4.5	0.00	0.00	0.00	1.1	ESE
10/31/2024 12:08:00	15.0	10.6	-4.4	0.00	0.00	0.00	1.1	ESE
10/31/2024 12:09:00	14.7	10.5	-4.2	0.00	0.00	0.00	1.1	E

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 12:10:00	14.4	10.3	-4.1	0.00	0.00	0.00	1.1	ESE
10/31/2024 12:11:00	14.5	10.1	-4.4	0.00	0.00	0.00	1.2	E
10/31/2024 12:12:00	14.4	10.0	-4.4	0.00	0.00	0.00	1.1	ESE
10/31/2024 12:13:00	14.1	9.9	-4.2	0.00	0.00	0.00	1.1	ESE
10/31/2024 12:14:00	13.9	9.8	-4.0	0.00	0.01	0.00	1.1	ENE
10/31/2024 12:15:00	13.8	9.8	-4.1	0.00	0.01	0.00	1.1	SE
10/31/2024 12:16:00	13.7	9.5	-4.2	0.00	0.01	0.00	1.0	ESE
10/31/2024 12:17:00	13.7	9.6	-4.2	0.00	0.01	0.00	1.0	SE
10/31/2024 12:18:00	13.9	9.6	-4.3	0.00	0.01	0.01	1.0	NE
10/31/2024 12:19:00	14.3	9.6	-4.7	0.00	0.01	0.01	1.0	ESE
10/31/2024 12:20:00	14.3	9.6	-4.7	0.00	0.01	0.01	1.0	E
10/31/2024 12:21:00	14.4	9.5	-4.9	0.01	0.01	0.01	0.9	ENE
10/31/2024 12:22:00	14.4	9.5	-5.0	0.01	0.02	0.01	0.9	ENE
10/31/2024 12:23:00	14.4	9.5	-4.8	0.01	0.02	0.01	0.9	E
10/31/2024 12:24:00	14.0	9.6	-4.4	0.01	0.02	0.01	0.9	E
10/31/2024 12:25:00	13.7	9.7	-4.0	0.01	0.02	0.01	0.9	E
10/31/2024 12:26:00	13.3	9.7	-3.6	0.01	0.02	0.02	0.9	ESE
10/31/2024 12:27:00	12.9	9.6	-3.3	0.01	0.03	0.02	0.9	SSE
10/31/2024 12:28:00	12.5	9.6	-2.9	0.01	0.02	0.02	0.9	ESE
10/31/2024 12:29:00	12.3	9.6	-2.7	0.00	0.02	0.02	0.9	ESE
10/31/2024 12:30:00	12.0	9.6	-2.4	0.00	0.02	0.02	1.0	E
10/31/2024 12:31:00	11.7	9.6	-2.2	0.00	0.02	0.02	1.0	E
10/31/2024 12:32:00	11.3	9.3	-2.0	0.00	0.02	0.02	1.1	ESE
10/31/2024 12:33:00	10.9	9.2	-1.7	0.00	0.02	0.02	1.1	E
10/31/2024 12:34:00	10.3	9.2	-1.1	0.00	0.02	0.02	1.1	E
10/31/2024 12:35:00	9.9	9.2	-0.8	0.00	0.02	0.02	1.1	E
10/31/2024 12:36:00	9.6	9.2	-0.4	0.00	0.02	0.02	1.2	E
10/31/2024 12:37:00	9.4	9.2	-0.1	0.00	0.02	0.02	1.2	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 12:38:00	9.1	9.2	0.1	0.01	0.02	0.02	1.2	E
10/31/2024 12:39:00	9.1	9.1	0.1	0.01	0.03	0.02	1.2	ESE
10/31/2024 12:40:00	9.1	9.1	0.0	0.01	0.03	0.02	1.2	E
10/31/2024 12:41:00	9.0	9.1	0.1	0.01	0.03	0.02	1.2	E
10/31/2024 12:42:00	9.0	9.2	0.2	0.01	0.03	0.02	1.3	ENE
10/31/2024 12:43:00	9.0	9.2	0.2	0.01	0.03	0.02	1.4	E
10/31/2024 12:44:00	9.0	9.2	0.1	0.01	0.03	0.02	1.4	E
10/31/2024 12:45:00	9.0	9.1	0.1	0.01	0.03	0.02	1.4	E
10/31/2024 12:46:00	9.0	9.1	0.1	0.01	0.03	0.02	1.4	E
10/31/2024 12:47:00	8.9	9.0	0.1	0.01	0.03	0.02	1.4	ESE
10/31/2024 12:48:00	8.9	9.0	0.1	0.01	0.03	0.02	1.3	SE
10/31/2024 12:49:00	8.9	9.0	0.1	0.01	0.04	0.02	1.3	E
10/31/2024 12:50:00	9.0	9.0	0.1	0.01	0.04	0.02	1.3	E
10/31/2024 12:51:00	9.1	9.0	-0.2	0.01	0.04	0.03	1.2	E
10/31/2024 12:52:00	9.1	8.9	-0.2	0.01	0.04	0.03	1.2	ESE
10/31/2024 12:53:00	9.1	8.9	-0.2	0.02	0.04	0.03	1.2	E
10/31/2024 12:54:00	9.0	8.9	-0.1	0.02	0.05	0.03	1.1	SSW
10/31/2024 12:55:00	9.0	8.9	-0.1	0.02	0.05	0.03	1.0	SE
10/31/2024 12:56:00	9.0	8.9	-0.1	0.02	0.05	0.02	1.0	E
10/31/2024 12:57:00	9.1	8.8	-0.3	0.03	0.05	0.02	0.9	SSE
10/31/2024 12:58:00	9.2	8.8	-0.4	0.03	0.05	0.02	0.8	E
10/31/2024 12:59:00	9.2	8.8	-0.4	0.03	0.06	0.03	0.8	ESE
10/31/2024 13:00:00	9.1	8.8	-0.3	0.04	0.06	0.03	0.8	E
10/31/2024 13:01:00	9.2	9.1	-0.2	0.04	0.07	0.03	0.8	ESE
10/31/2024 13:02:00	9.3	9.2	-0.2	0.04	0.07	0.03	0.9	E
10/31/2024 13:03:00	9.4	9.3	-0.1	0.04	0.07	0.03	1.0	E
10/31/2024 13:04:00	9.4	9.4	0.1	0.03	0.06	0.03	1.0	ENE
10/31/2024 13:05:00	9.4	9.6	0.2	0.03	0.06	0.03	1.0	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 13:06:00	9.1	9.7	0.6	0.03	0.05	0.02	1.0	E
10/31/2024 13:07:00	9.1	9.9	0.8	0.03	0.05	0.02	1.1	E
10/31/2024 13:08:00	9.0	9.8	0.8	0.03	0.04	0.02	1.1	E
10/31/2024 13:09:00	9.0	9.6	0.6	0.02	0.04	0.02	1.1	ESE
10/31/2024 13:10:00	9.0	9.6	0.6	0.02	0.04	0.02	1.2	E
10/31/2024 13:11:00	9.1	9.5	0.5	0.02	0.04	0.02	1.2	E
10/31/2024 13:12:00	8.9	9.5	0.5	0.02	0.04	0.02	1.3	E
10/31/2024 13:13:00	8.8	9.4	0.5	0.02	0.04	0.02	1.3	SSE
10/31/2024 13:14:00	8.8	9.3	0.5	0.02	0.05	0.03	1.2	SE
10/31/2024 13:15:00	8.8	9.3	0.5	0.02	0.05	0.02	1.2	SE
10/31/2024 13:16:00	8.8	8.9	0.1	0.03	0.05	0.02	1.1	SSE
10/31/2024 13:17:00	8.8	8.7	-0.1	0.03	0.06	0.02	1.0	ESE
10/31/2024 13:18:00	9.0	8.6	-0.4	0.04	0.06	0.02	0.9	S
10/31/2024 13:19:00	9.4	8.3	-1.0	0.04	0.06	0.02	0.9	SE
10/31/2024 13:20:00	9.6	8.1	-1.5	0.05	0.07	0.02	0.8	S
10/31/2024 13:21:00	9.8	7.8	-2.0	0.06	0.07	0.01	0.8	E
10/31/2024 13:22:00	10.2	7.6	-2.6	0.06	0.08	0.01	0.8	E
10/31/2024 13:23:00	10.8	7.6	-3.2	0.07	0.08	0.01	0.8	E
10/31/2024 13:24:00	11.0	7.6	-3.4	0.08	0.09	0.01	0.8	S
10/31/2024 13:25:00	11.0	7.5	-3.5	0.09	0.09	0.01	0.7	ESE
10/31/2024 13:26:00	10.8	7.7	-3.1	0.09	0.10	0.01	0.6	WSW
10/31/2024 13:27:00	11.1	7.7	-3.4	0.10	0.10	0.00	0.6	ESE
10/31/2024 13:28:00	11.4	7.7	-3.7	0.10	0.10	0.00	0.6	SE
10/31/2024 13:29:00	11.5	7.7	-3.8	0.11	0.10	-0.01	0.6	SE
10/31/2024 13:30:00	11.8	7.7	-4.1	0.11	0.10	-0.01	0.6	ESE
10/31/2024 13:31:00	11.9	7.7	-4.2	0.11	0.10	-0.01	0.6	ESE
10/31/2024 13:32:00	12.2	7.6	-4.5	0.12	0.10	-0.02	0.7	ESE
10/31/2024 13:33:00	12.1	7.6	-4.5	0.12	0.11	-0.01	0.8	E

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 13:34:00	11.9	7.6	-4.3	0.11	0.11	0.00	0.8	ESE
10/31/2024 13:35:00	11.9	7.6	-4.3	0.10	0.11	0.00	0.9	E
10/31/2024 13:36:00	11.9	7.5	-4.4	0.10	0.10	0.01	0.9	E
10/31/2024 13:37:00	12.0	7.6	-4.5	0.09	0.10	0.01	0.9	ESE
10/31/2024 13:38:00	11.7	7.7	-3.9	0.08	0.09	0.01	0.9	ESE
10/31/2024 13:39:00	11.7	7.7	-3.9	0.07	0.08	0.01	0.9	ESE
10/31/2024 13:40:00	11.7	7.7	-4.1	0.07	0.08	0.01	0.9	ENE
10/31/2024 13:41:00	11.9	7.3	-4.6	0.06	0.07	0.01	1.0	SE
10/31/2024 13:42:00	11.7	7.2	-4.5	0.06	0.07	0.01	1.0	SE
10/31/2024 13:43:00	11.5	7.2	-4.4	0.05	0.06	0.01	1.0	E
10/31/2024 13:44:00	11.4	7.1	-4.3	0.05	0.06	0.01	1.0	S
10/31/2024 13:45:00	11.3	7.0	-4.3	0.04	0.06	0.01	1.0	SE
10/31/2024 13:46:00	11.2	7.0	-4.3	0.04	0.06	0.01	1.0	E
10/31/2024 13:47:00	11.0	6.9	-4.1	0.04	0.05	0.01	1.0	E
10/31/2024 13:48:00	10.9	6.8	-4.1	0.04	0.05	0.01	0.9	ESE
10/31/2024 13:49:00	10.8	6.7	-4.1	0.04	0.04	0.00	0.9	SE
10/31/2024 13:50:00	10.7	6.7	-4.0	0.04	0.04	0.00	0.8	SE
10/31/2024 13:51:00	10.6	6.9	-3.8	0.04	0.04	0.00	0.9	ESE
10/31/2024 13:52:00	10.4	6.8	-3.6	0.04	0.04	0.00	0.8	E
10/31/2024 13:53:00	10.3	6.5	-3.8	0.04	0.04	0.00	0.8	SE
10/31/2024 13:54:00	10.3	6.5	-3.8	0.04	0.03	0.00	0.8	SE
10/31/2024 13:55:00	10.3	6.4	-3.9	0.04	0.03	-0.01	0.8	E
10/31/2024 13:56:00	10.2	6.4	-3.8	0.04	0.03	0.00	0.8	ESE
10/31/2024 13:57:00	10.3	6.4	-4.0	0.03	0.03	0.00	0.9	SSE
10/31/2024 13:58:00	10.3	6.4	-3.9	0.03	0.03	0.00	0.9	ESE
10/31/2024 13:59:00	10.4	6.4	-4.1	0.03	0.03	0.00	0.9	E
10/31/2024 14:00:00	10.5	6.4	-4.1	0.03	0.02	0.00	0.9	E
10/31/2024 14:01:00	10.1	6.6	-3.5	0.03	0.02	0.00	0.8	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 14:02:00	10.1	6.6	-3.5	0.02	0.02	0.00	0.8	ESE
10/31/2024 14:03:00	9.9	6.6	-3.3	0.02	0.02	0.00	0.7	S
10/31/2024 14:04:00	9.7	6.6	-3.1	0.02	0.02	0.00	0.7	SE
10/31/2024 14:05:00	9.4	6.5	-2.9	0.03	0.02	0.00	0.7	SSE
10/31/2024 14:06:00	9.0	6.4	-2.6	0.03	0.03	0.00	0.6	SW
10/31/2024 14:07:00	8.7	6.2	-2.4	0.03	0.03	0.00	0.7	SSE
10/31/2024 14:08:00	8.7	6.3	-2.4	0.03	0.03	0.00	0.6	SSE
10/31/2024 14:09:00	8.7	6.4	-2.3	0.03	0.03	0.00	0.6	ESE
10/31/2024 14:10:00	8.8	6.4	-2.4	0.03	0.03	0.01	0.7	SE
10/31/2024 14:11:00	8.9	6.5	-2.5	0.03	0.03	0.01	0.7	ENE
10/31/2024 14:12:00	8.9	6.5	-2.4	0.02	0.03	0.01	0.6	SSE
10/31/2024 14:13:00	9.1	6.6	-2.5	0.02	0.03	0.01	0.6	SSE
10/31/2024 14:14:00	8.8	6.9	-1.9	0.02	0.03	0.01	0.6	SSW
10/31/2024 14:15:00	9.0	7.0	-2.1	0.02	0.03	0.01	0.6	SSE
10/31/2024 14:16:00	9.6	6.7	-2.9	0.02	0.02	0.01	0.7	SSE
10/31/2024 14:17:00	9.6	6.7	-2.9	0.01	0.02	0.01	0.7	S
10/31/2024 14:18:00	9.6	6.7	-2.9	0.01	0.02	0.01	0.7	SSE
10/31/2024 14:19:00	9.7	6.7	-3.0	0.01	0.01	0.00	0.7	SE
10/31/2024 14:20:00	9.9	6.7	-3.2	0.01	0.01	0.00	0.7	SSE
10/31/2024 14:21:00	10.2	6.8	-3.4	0.01	0.01	0.00	0.8	SE
10/31/2024 14:22:00	10.5	6.8	-3.7	0.00	0.01	0.00	0.8	ESE
10/31/2024 14:23:00	10.5	7.2	-3.3	0.00	0.01	0.00	0.8	E
10/31/2024 14:24:00	10.5	7.1	-3.4	0.00	0.00	0.00	0.8	SSE
10/31/2024 14:25:00	10.3	7.1	-3.2	0.00	0.00	0.00	0.8	S
10/31/2024 14:26:00	10.3	6.9	-3.3	0.00	0.00	0.00	0.8	SSE
10/31/2024 14:27:00	10.4	6.8	-3.6	0.00	0.00	0.00	0.8	S
10/31/2024 14:28:00	10.2	6.7	-3.5	0.00	0.00	0.00	0.8	SE
10/31/2024 14:29:00	10.3	6.3	-4.0	0.00	0.00	0.00	0.8	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 14:30:00	10.1	6.3	-3.8	0.00	0.00	0.00	0.8	SE
10/31/2024 14:31:00	9.9	6.2	-3.7	0.00	0.00	0.00	0.8	SE
10/31/2024 14:32:00	10.2	6.2	-4.0	0.00	0.00	0.00	0.8	ESE
10/31/2024 14:33:00	10.4	6.3	-4.1	0.00	0.00	0.00	0.8	ESE
10/31/2024 14:34:00	10.4	6.2	-4.1	0.00	0.00	0.00	0.9	ESE
10/31/2024 14:35:00	10.2	6.2	-4.1	0.00	0.00	0.00	0.9	SE
10/31/2024 14:36:00	10.4	6.2	-4.3	0.00	0.00	0.00	0.9	E
10/31/2024 14:37:00	10.6	6.2	-4.4	0.00	0.00	0.00	0.9	ESE
10/31/2024 14:38:00	10.6	5.7	-4.9	0.00	0.00	0.00	0.9	SSE
10/31/2024 14:39:00	10.5	5.7	-4.8	0.00	0.00	0.00	0.9	SSE
10/31/2024 14:40:00	10.5	5.7	-4.8	0.00	0.00	0.00	1.0	SE
10/31/2024 14:41:00	10.5	5.8	-4.7	0.00	0.00	0.00	1.0	ESE
10/31/2024 14:42:00	10.4	5.8	-4.6	0.00	0.00	0.00	1.0	ESE
10/31/2024 14:43:00	10.3	5.8	-4.5	0.00	0.00	0.00	1.1	ESE
10/31/2024 14:44:00	10.4	5.7	-4.6	0.00	0.00	0.00	1.1	SSE
10/31/2024 14:45:00	10.3	5.7	-4.6	0.00	0.00	0.00	1.1	ESE
10/31/2024 14:46:00	10.3	5.6	-4.6	0.00	0.00	0.00	1.1	ESE
10/31/2024 14:47:00	10.4	5.6	-4.7	0.00	0.00	0.00	1.1	ENE
10/31/2024 14:48:00	10.5	5.7	-4.8	0.00	0.00	0.00	1.0	E
10/31/2024 14:49:00	10.8	5.7	-5.0	0.00	0.00	0.00	1.0	ENE
10/31/2024 14:50:00	10.8	6.2	-4.6	0.00	0.00	0.00	1.0	ESE
10/31/2024 14:51:00	10.7	6.7	-3.9	0.00	0.00	0.00	1.0	SSE
10/31/2024 14:52:00	10.4	6.7	-3.7	0.00	0.00	0.00	1.0	ESE
10/31/2024 14:53:00	10.3	6.6	-3.6	0.00	0.00	0.00	1.0	ESE
10/31/2024 14:54:00	10.4	6.6	-3.8	0.00	0.00	0.00	1.0	SSE
10/31/2024 14:55:00	10.5	6.6	-3.9	0.00	0.00	0.00	0.9	SSE
10/31/2024 14:56:00	10.5	6.5	-4.0	0.00	0.00	0.00	0.9	SE
10/31/2024 14:57:00	11.0	6.5	-4.5	0.00	0.00	0.00	0.9	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 14:58:00	11.4	6.5	-4.9	0.00	0.00	0.00	0.8	S
10/31/2024 14:59:00	11.5	6.6	-4.9	0.00	0.00	0.00	0.8	SE
10/31/2024 15:00:00	11.9	6.7	-5.2	0.00	0.00	0.00	0.8	E
10/31/2024 15:01:00	12.1	6.7	-5.4	0.00	0.00	0.00	0.8	SSE
10/31/2024 15:02:00	12.3	6.7	-5.6	0.00	0.00	0.00	0.8	SE
10/31/2024 15:03:00	12.4	6.6	-5.8	0.00	0.00	0.00	0.9	E
10/31/2024 15:04:00	12.5	6.6	-5.8	0.00	0.00	0.00	0.9	SE
10/31/2024 15:05:00	12.9	6.2	-6.8	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:06:00	13.3	5.6	-7.7	0.00	0.00	0.00	0.9	ESE
10/31/2024 15:07:00	13.8	5.7	-8.1	0.00	0.00	0.00	0.9	S
10/31/2024 15:08:00	14.0	5.7	-8.3	0.00	0.00	0.00	0.9	ESE
10/31/2024 15:09:00	13.9	5.8	-8.2	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:10:00	14.0	5.8	-8.2	0.00	0.00	0.00	0.9	ESE
10/31/2024 15:11:00	14.0	5.8	-8.2	0.00	0.00	0.00	0.9	E
10/31/2024 15:12:00	13.7	5.8	-7.8	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:13:00	13.6	6.1	-7.5	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:14:00	13.6	6.1	-7.5	0.00	0.00	0.00	1.0	E
10/31/2024 15:15:00	13.4	5.9	-7.4	0.00	0.00	0.00	1.0	SE
10/31/2024 15:16:00	13.2	5.9	-7.3	0.00	0.00	0.00	1.0	S
10/31/2024 15:17:00	13.0	6.1	-6.8	0.00	0.00	0.00	1.0	E
10/31/2024 15:18:00	13.0	6.1	-6.8	0.00	0.00	0.00	0.9	SE
10/31/2024 15:19:00	12.9	6.0	-6.9	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:20:00	12.1	6.1	-6.0	0.00	0.00	0.00	0.9	SSW
10/31/2024 15:21:00	11.7	6.0	-5.7	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:22:00	10.9	6.1	-4.8	0.00	0.00	0.00	0.9	SSW
10/31/2024 15:23:00	10.6	6.0	-4.7	0.00	0.00	0.00	0.9	S
10/31/2024 15:24:00	10.6	5.9	-4.7	0.00	0.00	0.00	0.8	NE
10/31/2024 15:25:00	10.5	5.8	-4.6	0.00	0.00	0.00	0.8	SE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 15:26:00	10.1	5.9	-4.1	0.00	0.00	0.00	0.8	SSW
10/31/2024 15:27:00	9.7	5.8	-4.0	0.00	0.00	0.00	0.8	SSE
10/31/2024 15:28:00	9.6	5.5	-4.1	0.00	0.00	0.00	0.8	ESE
10/31/2024 15:29:00	9.6	5.4	-4.2	0.00	0.00	0.00	0.8	SSE
10/31/2024 15:30:00	9.5	5.4	-4.0	0.00	0.00	0.00	0.8	SSE
10/31/2024 15:31:00	9.2	5.6	-3.6	0.00	0.01	0.01	0.8	SSE
10/31/2024 15:32:00	9.0	5.4	-3.6	0.00	0.01	0.01	0.8	SSE
10/31/2024 15:33:00	8.9	5.4	-3.5	0.00	0.01	0.01	0.8	ESE
10/31/2024 15:34:00	8.3	6.6	-1.7	0.00	0.02	0.02	0.8	SSW
10/31/2024 15:35:00	9.2	6.6	-2.6	0.01	0.02	0.01	0.8	SSE
10/31/2024 15:36:00	9.5	6.7	-2.8	0.01	0.02	0.00	0.9	SSE
10/31/2024 15:37:00	9.6	7.2	-2.3	0.01	0.02	0.00	0.8	W
10/31/2024 15:38:00	9.8	7.3	-2.4	0.01	0.02	0.00	0.8	SE
10/31/2024 15:39:00	9.9	7.3	-2.6	0.01	0.02	0.00	0.9	SE
10/31/2024 15:40:00	9.9	7.4	-2.5	0.01	0.02	0.01	0.9	ESE
10/31/2024 15:41:00	10.2	7.2	-3.0	0.01	0.02	0.01	0.9	ESE
10/31/2024 15:42:00	10.3	7.3	-3.0	0.01	0.02	0.01	0.9	SE
10/31/2024 15:43:00	10.3	7.3	-3.0	0.01	0.02	0.01	1.0	SE
10/31/2024 15:44:00	10.5	7.4	-3.1	0.02	0.02	0.00	1.0	SSE
10/31/2024 15:45:00	10.8	7.4	-3.3	0.02	0.02	0.00	1.0	ESE
10/31/2024 15:46:00	10.9	7.3	-3.6	0.02	0.02	0.00	1.0	ESE
10/31/2024 15:47:00	10.7	7.2	-3.5	0.02	0.02	0.00	1.0	SE
10/31/2024 15:48:00	10.5	7.2	-3.3	0.02	0.01	0.00	1.0	SE
10/31/2024 15:49:00	10.7	6.0	-4.7	0.02	0.01	-0.01	1.0	SE
10/31/2024 15:50:00	10.0	5.7	-4.3	0.01	0.01	0.00	1.0	SE
10/31/2024 15:51:00	9.9	5.6	-4.3	0.00	0.01	0.00	1.0	E
10/31/2024 15:52:00	10.6	4.9	-5.7	0.00	0.01	0.00	1.1	SSE
10/31/2024 15:53:00	10.4	4.9	-5.4	0.00	0.01	0.00	1.2	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
10/31/2024 15:54:00	10.2	5.0	-5.2	0.00	0.01	0.00	1.2	ESE
10/31/2024 15:55:00	10.3	5.0	-5.3	0.00	0.00	0.00	1.1	ESE
10/31/2024 15:56:00	10.0	5.3	-4.6	0.00	0.00	0.00	1.1	SSW
10/31/2024 15:57:00	9.6	6.1	-3.5	0.00	0.00	0.00	1.0	SW
10/31/2024 15:58:00	9.8	6.0	-3.8	0.00	0.00	0.00	0.9	SSE
10/31/2024 15:59:00	9.6	5.9	-3.7	0.00	0.00	0.00	0.9	S

Date/Time	CLMW-05SI-2317 PM10 µg/m³	CLMW-05SI-2317 VOC ppm	CLMW-05SI-2318 PM10 µg/m³	CLMW-05SI-2318 VOC ppm	CLMW-05SI-2319 PM10 µg/m³	CLMW-05SI-2319 VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
31/10/2024 10:30	14.5	0.02	13.6	0.02	14.2	0.01	ESE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 10:45	14.5	0.02	13.6	0.02	17.5	0.03	ESE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 11:00	13.0	0.01	12.8	0.01	16.9	0.01	ESE	0.9	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 11:15	12.6	0.00	13.4	0.01	15.0	0.00	SE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 11:30	12.5	0.00	12.3	0.01	16.2	0.01	ESE	1.1	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 11:45	12.2	0.01	11.4	0.01	18.6	0.02	ESE	1.2	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 12:00	11.8	0.00	10.4	0.00	17.3	0.00	ESE	1.2	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 12:15	9.8	0.00	9.1	0.01	13.8	0.00	E	1.1	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 12:30	9.6	0.02	9.2	0.02	12.0	0.00	E	1.0	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 12:45	9.1	0.02	8.5	0.03	9.0	0.01	E	1.4	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 13:00	8.7	0.06	8.2	0.06	9.3	0.03	ESE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 13:15	9.2	0.04	8.9	0.03	8.8	0.02	E	1.2	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 13:30	7.3	0.10	7.3	0.09	12.1	0.11	SE	0.6	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 13:45	6.7	0.05	7.0	0.05	11.3	0.04	ESE	1.0	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 14:00	6.3	0.02	6.1	0.02	10.5	0.03	ESE	0.9	CLMW-05SI-2319 (PM10;	CLMW-05SI-2317 (PM10; VOC);

Date/Time	CLMW-05SI-2317 PM10 µg/m³	CLMW-05SI-2317 VOC ppm	CLMW-05SI-2318 PM10 µg/m³	CLMW-05SI-2318 VOC ppm	CLMW-05SI-2319 PM10 µg/m³	CLMW-05SI-2319 VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
									VOC)	CLMW-05SI-2318 (PM10; VOC)
31/10/2024 14:15	6.1	0.02	6.3	0.02	9.7	0.02	SSE	0.6	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 14:30	5.6	0.00	6.2	0.00	10.1	0.00	SSE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 14:45	5.5	0.00	5.6	0.00	10.3	0.00	SE	1.1	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 15:00	5.4	0.00	6.7	0.00	11.9	0.00	ESE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 15:15	5.2	0.00	5.9	0.00	13.4	0.00	SE	1.0	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 15:30	4.5	0.00	4.8	0.00	10.1	0.00	SSE	0.8	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)
31/10/2024 15:45	4.8	0.00	5.8	0.01	12.7	0.03	SE	1.0	CLMW-05SI-2319 (PM10; VOC)	CLMW-05SI-2317 (PM10; VOC); CLMW-05SI-2318 (PM10; VOC)

WSP · Luquer Street Brooklyn · 2317 (AQS1 19052023-2317)
Instrument Data export
11/1/2024 to 11/1/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 9:11		8.55	0.6	351.7	1016.3	20.1	69.2	40.677	-73.9978	22	33.6	13.254	Sample
11/1/2024 9:12	0	7.65	0.3	299.6	1016.3	20.1	69	40.677	-73.9978	21.4	33.9	13.254	Sample
11/1/2024 9:13	0	6.93	0.7	23.4	1016.2	19.9	68.8	40.677	-73.9978	21.3	33.9	13.16	Sample
11/1/2024 9:14													Zero
11/1/2024 9:15													Zero
11/1/2024 9:16													Zero
11/1/2024 9:17													Zero
11/1/2024 9:18	0	6.57	0.46	5.6	1016.1	19.9	68.2	40.677	-73.9978	20.9	33.9	13.113	Sample
11/1/2024 9:19	0	6.72	0.17	69.9	1016.2	19.9	67.9	40.677	-73.9979	21.2	34	13.113	Sample
11/1/2024 9:20	0	6.92	0.7	53.9	1016.2	19.9	67.9	40.677	-73.9979	21.2	34	13.125	Sample
11/1/2024 9:21	0	6.36	0.36	347	1016.2	19.9	67.9	40.677	-73.9979	21.1	33.9	13.116	Sample
11/1/2024 9:22	0.01	6.17	0.45	118.1	1016.2	20	68	40.677	-73.998	21.4	34	13.113	Sample
11/1/2024 9:23	0.05	6.38	0.31	88.8	1016.2	20	67.8	40.677	-73.998	21.4	33.8	13.119	Sample
11/1/2024 9:24	0.04	6.31	0.65	7.3	1016.2	20	67.8	40.6769	-73.998	21	33.8	13.113	Sample
11/1/2024 9:25	0.03	6.17	0.83	318.8	1016.1	20	67.7	40.6769	-73.998	20.7	33.8	13.119	Sample
11/1/2024 9:26	0.01	5.71	0.74	321.6	1016.2	20	67.4	40.6769	-73.998	21	33.7	13.125	Sample
11/1/2024 9:27	0.01	5.45	0.36	4.2	1016.2	20.1	67.3	40.6769	-73.9979	21.9	33.8	13.116	Sample
11/1/2024 9:28	0	5.8	0.28	342.4	1016.3	20.1	67.1	40.6769	-73.9979	22.8	33.7	13.116	Sample
11/1/2024 9:29	0	5.89	0.3	74.4	1016.3	20.1	67.2	40.6769	-73.9979	23.3	33.8	13.119	Sample
11/1/2024 9:30	0	5.93	0.27	51.8	1016.9	20.1	67.2	40.6769	-73.9979	28	33.8	13.119	Sample
11/1/2024 9:31	0	6.06	0.32	348.3	1018.7	20.2	67	40.6769	-73.9979	42.7	33.7	13.116	Sample
11/1/2024 9:32	0	6.25	0.5	14	1018.6	20.2	67	40.6769	-73.9979	41.8	33.6	13.119	Sample
11/1/2024 9:33	0.01	6.21	0.55	39.1	1018.3	20.2	66.9	40.6769	-73.9979	39.7	33.7	13.119	Sample
11/1/2024 9:34	0.03	7.02	0.47	19.5	1018.5	20.2	66.7	40.6769	-73.9979	41.4	33.7	13.125	Sample
11/1/2024 9:35	0.03	8.52	0.68	340.5	1019.1	20.2	66.6	40.6769	-73.9979	45.5	33.5	13.128	Sample
11/1/2024 9:36	0.03	8.46	0.68	327.6	1015.6	20.2	66.6	40.6769	-73.9979	16.9	33.3	13.125	Sample
11/1/2024 9:37	0.04	8.7	0.59	331.6	1015.9	20.2	66.6	40.6769	-73.9979	19.4	33.6	13.119	Sample
11/1/2024 9:38	0.05	8.01	0.53	331.2	1016.1	20.2	66.7	40.677	-73.9979	21.6	33.6	13.122	Sample
11/1/2024 9:39	0.04	6.94	0.7	312.5	1019.1	20.2	66.7	40.677	-73.9979	46.6	33.8	13.113	Sample
11/1/2024 9:40	0.02	6.8	0.59	326.1	1019.2	20.2	66.7	40.677	-73.9979	46.7	33.6	13.107	Sample
11/1/2024 9:41	0.01	6.59	0.62	352.7	1019.3	20.2	66.8	40.677	-73.9979	47.1	33.5	13.113	Sample
11/1/2024 9:42	0	6.02	0.54	346	1019.3	20.2	66.5	40.677	-73.9979	46.6	33.8	13.125	Sample
11/1/2024 9:43	0	5.87	0.74	329.8	1019.3	20.2	66.5	40.677	-73.9979	46.7	33.7	13.113	Sample
11/1/2024 9:44	0	5.98	0.55	331	1019.3	20.2	66.6	40.677	-73.9979	46.3	33.7	13.122	Sample
11/1/2024 9:45	0	6.06	0.74	327	1019.2	20.2	66.5	40.677	-73.9979	46.3	33.8	13.116	Sample
11/1/2024 9:46	0	5.83	0.7	322	1019.2	20.2	66.4	40.677	-73.9979	46	33.8	13.116	Sample
11/1/2024 9:47	0	6.09	1.11	328.6	1019.1	20.2	66.5	40.677	-73.9979	45.1	34	13.113	Sample
11/1/2024 9:48	0	6.08	0.28	32.8	1019.1	20.2	66.3	40.677	-73.9979	45.1	33.8	13.113	Sample
11/1/2024 9:49	0	5.89	0.58	322.9	1019.2	20.3	66.4	40.677	-73.9979	45.3	33.8	13.122	Sample
11/1/2024 9:50	0	6.13	0.47	356.9	1019.1	20.3	66.2	40.677	-73.9979	45.3	34	13.119	Sample
11/1/2024 9:51	0	5.93	0.72	337.8	1019.1	20.3	66.4	40.677	-73.9979	45.1	33.8	13.119	Sample
11/1/2024 9:52	0	5.93	0.67	338.2	1019.1	20.3	66.4	40.677	-73.9979	45.1	33.8	13.122	Sample
11/1/2024 9:53	0	5.85	0.35	33.4	1019.1	20.3	66.3	40.677	-73.9979	45.1	33.9	13.113	Sample
11/1/2024 9:54	0	5.86	0.56	357.2	1019.1	20.3	66.3	40.677	-73.9978	45.2	33.7	13.119	Sample
11/1/2024 9:55	0	5.4	0.32	52.6	1019	20.3	66.1	40.677	-73.9978	45.1	33.7	13.113	Sample
11/1/2024 9:56	0	5.51	0.67	358.7	1019	20.3	66.1	40.677	-73.9978	45	33.8	13.119	Sample
11/1/2024 9:57	0	5.53	0.55	30.2	1019	20.3	66	40.677	-73.9978	44.8	33.7	13.119	Sample
11/1/2024 9:58	0	5.56	0.78	325.1	1018.9	20.3	65.9	40.677	-73.9978	44.7	33.6	13.116	Sample
11/1/2024 9:59	0	5.61	0.54	345.8	1018.9	20.3	65.9	40.677	-73.9978	44.5	33.7	13.125	Sample
11/1/2024 10:00	0	5.7	0.62	323.5	1018.9	20.3	65.9	40.677	-73.9978	44.7	33.8	13.119	Sample
11/1/2024 10:01	0	5.71	0.64	20	1018.9	20.4	65.8	40.677	-73.9978	44.3	33.7	13.128	Sample
11/1/2024 10:02	0	5.7	0.47	99	1018.8	20.4	65.7	40.677	-73.9978	43.9	34.1	13.119	Sample
11/1/2024 10:03	0	5.55	0.3	33.3	1018.8	20.4	65.7	40.677	-73.9978	43.5	33.8	13.116	Sample
11/1/2024 10:04	0	5.61	0.32	114.2	1018.8	20.4	65.7	40.677	-73.9978	43.4	33.8	13.119	Sample
11/1/2024 10:05	0	5.72	0.81	355.8	1018.8	20.5	65.6	40.677	-73.9978	43.4	33.8	13.119	Sample
11/1/2024 10:06	0	5.63	1.1	339.5	1018.7	20.5	65.6	40.6771	-73.9978	43.4	33.9	13.116	Sample
11/1/2024 10:07	0	5.65	0.59	342.4	1018.7	20.4	65.5	40.6771	-73.9978	43.3	34	13.125	Sample
11/1/2024 10:08	0	5.58	0.48	18.3	1018.6	20.5	65.5	40.6771	-73.9978	43.4	33.8	13.119	Sample
11/1/2024 10:09	0	5.28	0.26	61.1	1018.7	20.5	65.6	40.6771	-73.9978	43.3	33.9	13.113	Sample
11/1/2024 10:10	0	5.23	0.3	72.5	1018.7	20.5	65.5	40.6771	-73.9978	43.3	33.9	13.119	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 10:11	0	5.32	0.78	335.8	1018.4	20.5	65.4	40.677	-73.9978	41.5	33.8	13.122	Sample
11/1/2024 10:12	0	5.47	0.59	2.7	1018.1	20.5	65.3	40.677	-73.9978	38.4	33.7	13.125	Sample
11/1/2024 10:13	0	5.37	0.49	326.4	1018.5	20.5	65.2	40.677	-73.9978	40.9	33.8	13.119	Sample
11/1/2024 10:14	0	5.35	0.79	320.6	1018.5	20.6	65.2	40.677	-73.9978	41.2	33.8	13.122	Sample
11/1/2024 10:15	0	5.85	0.39	107.5	1018.4	20.6	65.2	40.677	-73.9978	41	34	13.125	Sample
11/1/2024 10:16	0	5.62	0.46	352.7	1018.3	20.6	65.2	40.677	-73.9978	39.3	34	13.116	Sample
11/1/2024 10:17	0	5.46	0.48	340.4	1018.2	20.6	65.2	40.677	-73.9978	38.9	33.5	13.125	Sample
11/1/2024 10:18	0	5.51	0.4	351.2	1018.1	20.6	65.1	40.6771	-73.9978	38.7	33.6	13.128	Sample
11/1/2024 10:19	0	5.77	0.39	26	1018	20.6	65.4	40.677	-73.9978	37.9	33.7	13.116	Sample
11/1/2024 10:20	0	5.54	0.42	345.5	1018	20.7	65.1	40.677	-73.9978	36.7	33.8	13.116	Sample
11/1/2024 10:21	0	5.39	0.71	339.4	1018.1	20.7	65	40.677	-73.9978	37.4	33.8	13.122	Sample
11/1/2024 10:22	0	5.69	0.61	15.2	1018	20.7	64.9	40.677	-73.9978	36.6	33.9	13.116	Sample
11/1/2024 10:23	0	5.69	1.22	337.3	1017.7	20.7	64.8	40.6771	-73.9978	35.3	33.7	13.116	Sample
11/1/2024 10:24	0	5.63	0.27	84	1017.7	20.7	64.6	40.6771	-73.9978	35.3	33.6	13.122	Sample
11/1/2024 10:25	0	5.53	0.4	24.7	1017.7	20.7	64.8	40.6771	-73.9978	35.2	33.7	13.116	Sample
11/1/2024 10:26	0.01	6.01	0.29	87.2	1017.6	20.7	64.7	40.6771	-73.9978	34.5	33.6	13.125	Sample
11/1/2024 10:27	0.02	6.03	0.28	82.8	1017.7	20.8	64.6	40.6771	-73.9978	34.2	33.7	13.119	Sample
11/1/2024 10:28	0.01	6	0.66	11.6	1017.7	20.8	64.6	40.6771	-73.9978	34.1	33.7	13.116	Sample
11/1/2024 10:29	0	7.16	0.57	1.3	1017.5	20.8	64.5	40.6771	-73.9978	32.4	33.7	13.119	Sample
11/1/2024 10:30	0	8.53	0.5	310	1017.3	20.8	64.6	40.6771	-73.9978	31.5	33.7	13.125	Sample
11/1/2024 10:31	0	9.05	0.36	17	1017.2	20.8	64.6	40.6771	-73.9978	30.9	33.6	13.116	Sample
11/1/2024 10:32	0	8.66	0.56	16.7	1013.7	20.9	64.5	40.6771	-73.9978	1.9	33.9	13.119	Sample
11/1/2024 10:33	0	6.69	0.57	348.6	1013.5	20.9	64.6	40.6771	-73.9978	0.6	33.7	13.122	Sample
11/1/2024 10:34	0	6.84	0.62	324.1	1013.9	20.9	64.4	40.6772	-73.9978	3.3	33.7	13.116	Sample
11/1/2024 10:35	0	6.07	1.09	317.4	1013.8	20.9	64.4	40.6772	-73.9978	2.4	33.6	13.113	Sample
11/1/2024 10:36	0	6.16	0.89	329.5	1010	20.9	64.3	40.6772	-73.9978	-28.9	33.8	13.113	Sample
11/1/2024 10:37	0	6.31	1.08	326.4	1011.8	20.9	64.2	40.6772	-73.9978	-13.5	33.7	13.116	Sample
11/1/2024 10:38	0	6.37	0.82	321	1011.6	20.9	64.2	40.6772	-73.9978	-15	33.7	13.116	Sample
11/1/2024 10:39	0	5.88	0.82	325.5	1011.6	20.9	64.2	40.6772	-73.9978	-15.5	33.8	13.116	Sample
11/1/2024 10:40	0	5.52	0.98	333.7	1011.6	20.9	64.2	40.6772	-73.9979	-15.4	33.8	13.116	Sample
11/1/2024 10:41	0	6.31	1.05	322.2	1011.6	20.9	64.2	40.6772	-73.9979	-15.6	33.8	13.113	Sample
11/1/2024 10:42	0	7.23	0.43	335.6	1011.6	20.9	64.2	40.6772	-73.9978	-15.3	33.9	13.122	Sample
11/1/2024 10:43	0	8.01	1.09	335.6	1011.7	20.9	64.2	40.6772	-73.9979	-14.2	33.8	13.113	Sample
11/1/2024 10:44	0	8.75	0.9	334.9	1011.7	20.9	64.3	40.6772	-73.9979	-13.6	33.7	13.122	Sample
11/1/2024 10:45	0	8.35	0.5	330	1011.8	20.9	64.4	40.6772	-73.9979	-13.1	33.6	13.116	Sample
11/1/2024 10:46	0	8.34	0.6	345.8	1011.9	20.9	64.4	40.6772	-73.9979	-12.7	33.7	13.116	Sample
11/1/2024 10:47	0	7.96	0.71	353.4	1011.9	20.9	64.4	40.6772	-73.9979	-12.6	33.6	13.113	Sample
11/1/2024 10:48	0	6.77	0.56	342.6	1012	20.9	64.4	40.6772	-73.9979	-12.4	33.5	13.119	Sample
11/1/2024 10:49	0	6.79	1.34	336	1012	20.9	64.2	40.6772	-73.9979	-12.3	33.5	13.113	Sample
11/1/2024 10:50	0	7.79	1.25	336.7	1011.9	20.9	64.1	40.6772	-73.9979	-12.2	33.5	13.128	Sample
11/1/2024 10:51	0	7.08	0.94	333	1011.9	20.9	64.2	40.6772	-73.9978	-11.9	33.7	13.116	Sample
11/1/2024 10:52	0	6.97	0.47	10.8	1012	20.9	64.2	40.6772	-73.9978	-11.1	33.3	13.113	Sample
11/1/2024 10:53	0	6.5	0.82	335.3	1012.1	21	64.1	40.6772	-73.9978	-10.8	33.5	13.119	Sample
11/1/2024 10:54	0	6.17	0.92	351.7	1012	21	64.1	40.6772	-73.9978	-10.8	33.5	13.116	Sample
11/1/2024 10:55	0.01	5.64	0.57	24	1012	21	63.9	40.6772	-73.9978	-11	33.5	13.116	Sample
11/1/2024 10:56	0.01	5.77	0.91	334.6	1012	21	63.9	40.6772	-73.9978	-10.9	33.6	13.116	Sample
11/1/2024 10:57	0.01	5.41	1.01	343.4	1012.1	21	63.8	40.6772	-73.9978	-10.8	33.3	13.113	Sample
11/1/2024 10:58	0	5.36	0.87	344	1012	21	63.8	40.6772	-73.9978	-10.7	33.3	13.113	Sample
11/1/2024 10:59	0	5.46	1.28	341.3	1012.1	21	63.9	40.6772	-73.9978	-10.5	33.4	13.113	Sample
11/1/2024 11:00	0	5.84	0.63	330.3	1012	21	63.8	40.6772	-73.9978	-10.1	33.5	13.119	Sample
11/1/2024 11:01	0	5.93	0.37	34.6	1012.2	21.1	63.8	40.6772	-73.9978	-9.2	33.5	13.113	Sample
11/1/2024 11:02	0	5.79	0.92	339.5	1012.2	21.1	64	40.6772	-73.9978	-8.7	33.5	13.122	Sample
11/1/2024 11:03	0	5.67	0.96	331.7	1012.3	21.1	63.7	40.6772	-73.9978	-8.4	33.5	13.116	Sample
11/1/2024 11:04	0	5.52	1.38	344.4	1012.4	21.1	63.8	40.6772	-73.9978	-7.8	33.8	13.113	Sample
11/1/2024 11:05	0	5.26	0.84	323.6	1012.5	21.1	63.8	40.6772	-73.9978	-7.3	33.6	13.122	Sample
11/1/2024 11:06	0	5.48	0.53	337.2	1012.6	21.1	63.8	40.6772	-73.9978	-6.3	33.6	13.116	Sample
11/1/2024 11:07	0	6.04	0.93	340.9	1012.7	21.2	64	40.6772	-73.9978	-5.5	33.7	13.116	Sample
11/1/2024 11:08	0	6.22	1.13	324	1012.7	21.1	63.8	40.6772	-73.9978	-5	33.7	13.113	Sample
11/1/2024 11:09	0	5.81	1	329	1012.9	21.1	63.8	40.6772	-73.9978	-3.6	33.8	13.116	Sample
11/1/2024 11:10	0	5.49	1.46	329.8	1016.1	21.1	63.8	40.6771	-73.9978	22.8	33.8	13.116	Sample
11/1/2024 11:11	0	5.24	1.57	326.1	1016.2	21.1	63.9	40.6771	-73.9978	24.6	33.9	13.113	Sample
11/1/2024 11:12	0	5.54	0.97	326.9	1016.3	21.1	63.9	40.6771	-73.9978	24.6	33.9	13.116	Sample
11/1/2024 11:13	0	5.96	1.21	321	1016.3	21.1	63.9	40.6771	-73.9977	25.4	33.7	13.116	Sample
11/1/2024 11:14	0	5.9	0.72	341	1016.3	21.1	64	40.6771	-73.9977	25.6	33.8	13.113	Sample
11/1/2024 11:15	0	6.04	0.81	336.8	1016.4	21.1	64.1	40.6771	-73.9978	26	33.8	13.113	Sample
11/1/2024 11:16	0	5.87	0.93	312.7	1016.4	21.1	64.1	40.6771	-73.9978	26.2	34	13.113	Sample
11/1/2024 11:17	0	5.58	0.63	336	1016.4	21.1	64	40.6771	-73.9978	26.1	33.7	13.113	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 11:18	0	6.82	0.83	330.7	1016.5	21.2	64.2	40.6771	-73.9978	25.9	33.9	13.116	Sample
11/1/2024 11:19	0	6.58	0.66	2.3	1016.5	21.2	64.2	40.6771	-73.9978	25.9	33.8	13.113	Sample
11/1/2024 11:20	0	8.52	0.95	336.3	1016.5	21.2	64.1	40.6771	-73.9978	26.1	34	13.116	Sample
11/1/2024 11:21	0	7.48	1.4	317.2	1016.5	21.2	64	40.6771	-73.9978	26.3	33.8	13.113	Sample
11/1/2024 11:22	0	6.67	0.8	319.4	1016.5	21.2	63.9	40.6771	-73.9978	26.3	34	13.116	Sample
11/1/2024 11:23	0	6.11	0.66	341.4	1016.5	21.2	64	40.6771	-73.9978	26.4	34.1	13.119	Sample
11/1/2024 11:24	0	6.25	1.23	329.7	1016.5	21.2	64.1	40.6771	-73.9978	26.3	33.9	13.116	Sample
11/1/2024 11:25	0	7.41	0.73	311.2	1016.5	21.2	64	40.6771	-73.9978	26.2	33.8	13.116	Sample
11/1/2024 11:26	0	6.11	0.82	357.2	1016.5	21.2	64	40.6771	-73.9978	25.8	33.7	13.119	Sample
11/1/2024 11:27	0	5.89	0.73	342.1	1016.4	21.2	64.1	40.6771	-73.9978	25.1	33.5	13.116	Sample
11/1/2024 11:28	0	6.85	1.03	310	1016.3	21.2	64	40.6771	-73.9978	24.6	33.6	13.113	Sample
11/1/2024 11:29	0	6.74	1.12	328.3	1016.3	21.2	64.1	40.6771	-73.9978	24.8	33.8	13.116	Sample
11/1/2024 11:30	0	7.51	0.32	277.1	1016.3	21.1	64	40.6771	-73.9978	24.6	33.8	13.119	Sample
11/1/2024 11:31	0	10.24	1.08	336	1016.3	21.2	64.2	40.6771	-73.9978	24.6	33.8	13.113	Sample
11/1/2024 11:32	0	7.77	0.65	321.6	1016.3	21.2	64.1	40.6771	-73.9978	24.5	33.9	13.113	Sample
11/1/2024 11:33	0	7.68	0.86	338.8	1016.3	21.2	64.2	40.6771	-73.9978	24.4	33.8	13.113	Sample
11/1/2024 11:34	0	7.9	1.09	324.2	1016.3	21.1	64.2	40.6771	-73.9978	24.3	33.9	13.113	Sample
11/1/2024 11:35	0	7.97	0.68	337.7	1016.3	21.1	64.3	40.6771	-73.9978	24.1	33.7	13.113	Sample
11/1/2024 11:36	0	7.09	0.88	337.7	1016.2	21.1	64.1	40.6771	-73.9978	23.9	33.9	13.116	Sample
11/1/2024 11:37	0	7.63	0.46	24.7	1016.2	21.1	64.1	40.6771	-73.9978	23.5	33.9	13.113	Sample
11/1/2024 11:38	0	7.02	0.77	344.6	1016.2	21.1	64.2	40.6771	-73.9978	23.3	33.8	13.113	Sample
11/1/2024 11:39	0	6.72	0.43	352.7	1016.1	21.1	64.1	40.6771	-73.9978	23.2	33.9	13.116	Sample
11/1/2024 11:40	0	6.42	0.28	10.5	1016.1	21.1	64.1	40.6771	-73.9978	22.9	33.7	13.113	Sample
11/1/2024 11:41	0	6.57	0.43	358.3	1016.1	21.1	64.1	40.6771	-73.9978	22.6	33.7	13.113	Sample
11/1/2024 11:42	0	5.86	0.62	2.3	1016	21.1	64	40.6771	-73.9978	22.3	34	13.11	Sample
11/1/2024 11:43	0	6.43	0.69	11.6	1016.1	21.1	64	40.6771	-73.9978	22.2	33.9	13.113	Sample
11/1/2024 11:44	0	5.7	1	337	1016.1	21.1	63.9	40.6771	-73.9978	22	33.8	13.116	Sample
11/1/2024 11:45	0	5.62	0.69	327.1	1016.1	21.1	63.9	40.6771	-73.9978	22	34	13.11	Sample
11/1/2024 11:46	0	5.3	0.82	326.3	1016.1	21.1	63.9	40.6771	-73.9978	22	33.8	13.113	Sample
11/1/2024 11:47	0	5.11	0.86	329.7	1016.1	21.1	64	40.6771	-73.9978	21.8	33.9	13.113	Sample
11/1/2024 11:48	0	5.11	0.84	347	1016	21.1	64	40.6771	-73.9978	21.5	33.8	13.113	Sample
11/1/2024 11:49	0	4.78	0.84	349.2	1016	21.1	63.9	40.6771	-73.9978	21.3	33.8	13.113	Sample
11/1/2024 11:50	0	4.93	0.52	47.3	1016.1	21.1	63.8	40.6771	-73.9978	21.4	33.9	13.116	Sample
11/1/2024 11:51	0	4.83	1.42	322.8	1016.1	21.1	63.8	40.6771	-73.9978	21.3	33.9	13.113	Sample
11/1/2024 11:52	0	4.95	0.93	344.4	1016.1	21.2	63.7	40.677	-73.9978	21.3	33.8	13.107	Sample
11/1/2024 11:53	0	5.28	1.13	339.4	1016	21.2	63.8	40.677	-73.9978	21.3	34	13.11	Sample
11/1/2024 11:54	0	5.02	0.73	322.7	1016	21.2	63.6	40.677	-73.9978	21.2	34	13.116	Sample
11/1/2024 11:55	0	5.1	0.47	337.1	1016	21.2	63.8	40.677	-73.9978	21	33.8	13.113	Sample
11/1/2024 11:56	0	5.05	0.93	335.1	1015.9	21.2	63.7	40.677	-73.9978	21	33.9	13.11	Sample
11/1/2024 11:57	0.04	4.85	0.61	359.8	1015.9	21.2	63.7	40.677	-73.9978	21	34	13.113	Sample
11/1/2024 11:58	0.17	4.71	1.04	330.3	1015.8	21.2	63.7	40.677	-73.9979	20.7	33.8	13.113	Sample
11/1/2024 11:59	0.2	4.76	0.43	12.9	1015.9	21.2	63.7	40.677	-73.9979	20.9	33.9	13.113	Sample
11/1/2024 12:00	0.15	4.96	0.34	355.6	1015.8	21.2	63.6	40.677	-73.9979	20.6	34.1	13.11	Sample
11/1/2024 12:01	0.06	5.33	0.7	324.9	1015.7	21.3	63.5	40.677	-73.9979	20.2	33.8	13.113	Sample
11/1/2024 12:02	0	5.7	0.67	347.5	1015.7	21.3	63.4	40.677	-73.9979	20.3	34.1	13.113	Sample
11/1/2024 12:03	0	5.83	0.76	346.2	1015.7	21.3	63.4	40.677	-73.9979	20.5	33.9	13.113	Sample
11/1/2024 12:04	0	6.26	0.87	314.6	1015.7	21.3	63.4	40.677	-73.9979	20.3	34.1	13.119	Sample
11/1/2024 12:05	0	6.31	0.57	344	1015.7	21.3	63.4	40.677	-73.9979	20	33.8	13.113	Sample
11/1/2024 12:06	0	6.1	0.57	345.6	1015.7	21.4	63.5	40.677	-73.9979	20	34	13.116	Sample
11/1/2024 12:07	0	5.95	0.43	347.6	1015.7	21.4	63.3	40.677	-73.9979	20.1	34.1	13.113	Sample
11/1/2024 12:08	0	5.72	0.71	327.6	1015.7	21.5	63.5	40.677	-73.9979	20.2	34	13.116	Sample
11/1/2024 12:09	0	5.24	1.36	332.5	1015.7	21.5	63.2	40.677	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:10	0	5.14	0.76	323.3	1015.7	21.5	63.1	40.677	-73.9979	20.2	34.1	13.113	Sample
11/1/2024 12:11	0	5.18	0.83	321.4	1015.8	21.6	63	40.677	-73.9979	20.2	33.8	13.113	Sample
11/1/2024 12:12	0	5.16	1	331.6	1015.8	21.6	62.8	40.677	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:13	0	5.13	0.91	341.4	1015.8	21.6	62.8	40.677	-73.9979	20.2	33.9	13.113	Sample
11/1/2024 12:14	0	4.7	0.72	323.3	1015.8	21.6	62.5	40.677	-73.9979	20.1	33.8	13.113	Sample
11/1/2024 12:15	0	4.62	0.88	322.8	1015.8	21.7	62.4	40.677	-73.9979	20.1	33.8	13.116	Sample
11/1/2024 12:16	0	4.68	1.03	325.7	1015.8	21.8	62.1	40.677	-73.9979	20.1	33.9	13.113	Sample
11/1/2024 12:17	0	4.49	0.68	331.8	1015.8	21.8	61.7	40.677	-73.9979	20	34	13.116	Sample
11/1/2024 12:18	0	4.89	0.33	25.8	1015.8	21.9	61.8	40.677	-73.9979	20	33.9	13.113	Sample
11/1/2024 12:19	0	4.95	0.95	329.6	1015.7	22	61.5	40.677	-73.9979	19.9	34	13.11	Sample
11/1/2024 12:20	0	5.26	1.11	328.9	1015.6	22.1	61.2	40.677	-73.9979	19.9	33.9	13.113	Sample
11/1/2024 12:21	0	4.68	1.25	328.4	1015.6	22.1	61	40.677	-73.9979	19.8	33.9	13.107	Sample
11/1/2024 12:22	0	5.56	0.8	355.9	1015.6	22.1	61.1	40.677	-73.9979	20	33.8	13.104	Sample
11/1/2024 12:23	0	6	0.73	356.6	1015.6	22.2	61	40.677	-73.9979	20.1	33.9	13.113	Sample
11/1/2024 12:24	0	5.1	0.89	332.6	1015.6	22.3	60.6	40.677	-73.9979	20.3	33.9	13.113	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 12:25	0	4.8	0.98	342.7	1015.6	22.3	60.4	40.677	-73.9979	20.3	33.8	13.11	Sample
11/1/2024 12:26	0	5.4	1.05	343.8	1015.6	22.4	60.3	40.677	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:27	0	5.25	1.01	323.9	1015.5	22.4	60.1	40.677	-73.9979	20.5	33.8	13.113	Sample
11/1/2024 12:28	0	4.98	1.28	314.1	1015.5	22.4	59.9	40.677	-73.9979	20.6	33.9	13.113	Sample
11/1/2024 12:29	0	5.15	1.58	323.7	1015.5	22.4	59.5	40.677	-73.9979	20.6	33.9	13.113	Sample
11/1/2024 12:30	0	4.48	1.12	333.4	1015.4	22.4	59.2	40.677	-73.9979	20.6	33.9	13.116	Sample
11/1/2024 12:31	0	4.16	0.93	333.6	1015.4	22.4	59.1	40.6769	-73.9979	20.5	34	13.113	Sample
11/1/2024 12:32	0	4.28	0.82	331.6	1015.4	22.5	59.4	40.6769	-73.9979	20.4	34.2	13.113	Sample
11/1/2024 12:33	0	4.51	1.23	349.4	1015.4	22.5	59.3	40.6769	-73.9979	20.3	34.1	13.113	Sample
11/1/2024 12:34	0	3.84	1.27	333.4	1015.4	22.5	59	40.6769	-73.9979	20.1	34	13.11	Sample
11/1/2024 12:35	0	4.45	0.77	345.9	1015.4	22.5	58.9	40.6769	-73.9979	20	34	13.113	Sample
11/1/2024 12:36	0	5.24	1.1	335.5	1015.3	22.6	58.6	40.6769	-73.9979	19.9	34	13.113	Sample
11/1/2024 12:37	0	4.28	0.87	356.5	1015.2	22.6	58.5	40.6769	-73.9979	19.9	33.8	13.113	Sample
11/1/2024 12:38	0	4.06	0.8	0.7	1015.2	22.7	58.4	40.6769	-73.9979	19.9	33.9	13.113	Sample
11/1/2024 12:39	0	4.14	0.9	354.4	1015.2	22.8	58.3	40.6769	-73.9979	19.9	33.9	13.11	Sample
11/1/2024 12:40	0	4.56	1.11	341.1	1015.2	22.8	58.2	40.6769	-73.9979	19.9	33.9	13.113	Sample
11/1/2024 12:41	0	4.21	0.49	36.3	1015.2	22.9	58	40.6769	-73.9979	19.9	34.1	13.113	Sample
11/1/2024 12:42	0	4.28	1.53	326.3	1015.1	23	57.8	40.6769	-73.9979	19.9	34	13.11	Sample
11/1/2024 12:43	0	3.9	1.34	345.9	1015.1	23	57.7	40.6769	-73.9979	19.9	33.9	13.11	Sample
11/1/2024 12:44	0	3.89	1.23	334.9	1015.2	23	57.6	40.6769	-73.9979	20	34	13.11	Sample
11/1/2024 12:45	0	4.15	1.73	336.7	1015.1	23	57.5	40.6769	-73.9979	20.2	33.8	13.11	Sample
11/1/2024 12:46	0	4.77	1.12	340.3	1015.1	23	57.6	40.6769	-73.9979	20.3	33.7	13.113	Sample
11/1/2024 12:47	0	5.14	1.05	329.8	1015	23.1	57.3	40.6769	-73.9979	20.4	33.9	13.116	Sample
11/1/2024 12:48	0	9.47	1.29	346.7	1015	23.1	57	40.6769	-73.9979	20.4	34.4	13.113	Sample
11/1/2024 12:49	0	5.32	0.97	339.3	1015	23.1	56.5	40.6769	-73.9979	20.3	34.1	13.11	Sample
11/1/2024 12:50	0	5.34	0.88	346	1015	23.2	56.5	40.6769	-73.9979	20.3	34	13.11	Sample
11/1/2024 12:51	0	4.91	1.25	311.6	1015	23.2	56.4	40.6769	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:52	0	4.24	1.12	354.3	1015	23.2	56.3	40.6769	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:53	0	4.32	0.78	328.6	1015	23.3	56.5	40.6769	-73.9979	20.4	33.7	13.113	Sample
11/1/2024 12:54	0	4.43	1.09	341.8	1015	23.3	56.7	40.6769	-73.9979	20.4	33.8	13.104	Sample
11/1/2024 12:55	0	5.29	1.71	327.2	1015	23.3	56.5	40.6769	-73.9979	20.4	34.1	13.107	Sample
11/1/2024 12:56	0	6.87	1.35	344.9	1015	23.3	56.1	40.6769	-73.9979	20.3	34	13.093	Sample
11/1/2024 12:57	0	5.32	0.94	331.7	1015	23.4	55.8	40.6769	-73.9979	20.3	33.9	13.113	Sample
11/1/2024 12:58	0	5.19	1.49	335.2	1015	23.4	55.2	40.6769	-73.9979	20.2	33.9	13.11	Sample
11/1/2024 12:59	0	5.68	0.97	329.6	1015	23.5	55.2	40.6769	-73.9979	20.2	34	13.113	Sample
11/1/2024 13:00	0	5.57	0.99	350.3	1015	23.6	55.1	40.6769	-73.9979	20.3	34	13.102	Sample
11/1/2024 13:01	0	4.85	1.41	340.1	1014.9	23.6	54.4	40.6769	-73.9979	20.3	33.9	13.11	Sample
11/1/2024 13:02	0	4.33	1.31	340.1	1014.9	23.7	53.9	40.6769	-73.9979	20.3	33.9	13.104	Sample
11/1/2024 13:03	0	4.23	1.02	340.8	1014.9	23.7	53.5	40.6769	-73.9979	20.2	33.9	13.102	Sample
11/1/2024 13:04	0	3.95	0.91	319.1	1014.8	23.8	53.1	40.6769	-73.9979	20	34	13.104	Sample
11/1/2024 13:05	0	3.83	1.19	313.2	1014.8	23.8	52.5	40.6769	-73.9979	20	34.1	13.102	Sample
11/1/2024 13:06	0	4.21	1.41	322	1014.8	23.8	52.2	40.6769	-73.9979	19.9	34	13.113	Sample
11/1/2024 13:07	0	6.02	1.17	340.2	1014.7	23.9	52.1	40.6769	-73.9979	19.9	34.1	13.107	Sample
11/1/2024 13:08	0	5.6	1.29	311	1014.8	23.9	52.1	40.6769	-73.9979	20	33.9	13.11	Sample
11/1/2024 13:09	0	4.49	1.54	330.8	1014.8	23.9	52.2	40.6769	-73.9978	20.1	34.2	13.11	Sample
11/1/2024 13:10	0	4.87	0.82	347.5	1014.8	24	52.3	40.6769	-73.9978	20.1	33.9	13.099	Sample
11/1/2024 13:11	0	5.03	1.22	339.8	1014.8	24	52.2	40.6769	-73.9978	20.2	34.1	13.102	Sample
11/1/2024 13:12													Zero
11/1/2024 13:13													Zero
11/1/2024 13:14													Zero
11/1/2024 13:15	0	6.54	0.82	347.9	1014.8	24	51.3	40.6769	-73.9979	20.4	33.8	13.09	Sample
11/1/2024 13:16	0	7.45	0.88	62.3	1014.8	24	50.7	40.6769	-73.9979	20.4	34	13.096	Sample
11/1/2024 13:17	0	6.87	1.09	332.9	1014.7	24	49.9	40.6769	-73.9979	20.3	34	13.087	Sample
11/1/2024 13:18	0	7.33	1.05	346.3	1014.7	24	50	40.6769	-73.9979	20.2	34	13.087	Sample
11/1/2024 13:19	0	6.36	1.04	332.5	1014.7	24	50	40.6769	-73.9979	20.1	34.1	13.096	Sample
11/1/2024 13:20	0	6.91	1.04	308.6	1014.7	24	50.1	40.6769	-73.9979	20.1	34	13.093	Sample
11/1/2024 13:21	0	6.72	1.13	340.4	1014.7	24	50.1	40.6769	-73.9979	20.1	34	13.09	Sample
11/1/2024 13:22	0	8.51	0.62	315.3	1014.7	24.1	50.4	40.6769	-73.9979	20.1	34	13.093	Sample
11/1/2024 13:23	0	6.65	1.08	339.9	1014.6	24.1	50.2	40.6769	-73.9979	20.2	33.9	13.078	Sample
11/1/2024 13:24	0	7.64	1.86	339.5	1014.6	24.1	49.3	40.677	-73.9979	20.2	34	13.093	Sample
11/1/2024 13:25	0	7.95	1.33	334.9	1014.6	24.1	49	40.677	-73.9978	20.3	34.2	13.087	Sample
11/1/2024 13:26	0	8.69	2.12	325.4	1014.6	24.1	48.9	40.677	-73.9978	20.4	34.1	13.081	Sample
11/1/2024 13:27	0	7.29	1.78	328	1014.6	24.1	48.8	40.677	-73.9978	20.5	34.1	13.081	Sample
11/1/2024 13:28	0	6.47	1.12	332	1014.6	24.1	49	40.677	-73.9978	20.7	34	13.078	Sample
11/1/2024 13:29	0	6.29	1.46	331.3	1014.7	24.1	48.9	40.677	-73.9978	20.9	34.1	13.084	Sample
11/1/2024 13:30	0	6.33	1.93	328.2	1014.6	24.1	48.8	40.677	-73.9978	21	34.2	13.078	Sample
11/1/2024 13:31	0	6.01	1.54	341.7	1014.6	24.1	48.9	40.677	-73.9978	21.1	34.1	13.078	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 13:32	0	7.31	1.32	326.8	1014.6	24.1	49	40.677	-73.9978	21.3	34	13.084	Sample
11/1/2024 13:33	0	7.12	1.54	344.7	1014.6	24.1	48.8	40.677	-73.9978	21.5	34.1	13.078	Sample
11/1/2024 13:34	0	8.01	1.45	321.6	1014.7	24	48.7	40.677	-73.9978	21.8	34	13.078	Sample
11/1/2024 13:35	0	9.06	0.9	319.9	1014.7	24	48.7	40.677	-73.9978	22	34.2	13.081	Sample
11/1/2024 13:36	0	7.38	0.65	12.4	1014.7	24.1	48.5	40.677	-73.9978	22.1	33.9	13.078	Sample
11/1/2024 13:37	0	6.47	1.27	359.8	1014.7	24.2	48.2	40.677	-73.9978	22.3	34	13.084	Sample
11/1/2024 13:38	0	5.73	1.37	314	1014.8	24.2	48	40.677	-73.9978	22.5	34	13.081	Sample
11/1/2024 13:39	0	6.87	1.33	325.3	1014.9	24.3	48	40.677	-73.9978	22.6	34.2	13.078	Sample
11/1/2024 13:40	0	6.02	1.12	325.2	1014.8	24.3	47.8	40.677	-73.9978	22.8	33.8	13.081	Sample
11/1/2024 13:41	0	5.35	1.98	334.5	1014.8	24.2	47.6	40.677	-73.9978	23.1	34	13.084	Sample
11/1/2024 13:42	0	5.4	0.91	339.1	1014.9	24.2	47.6	40.677	-73.9978	23.3	33.9	13.078	Sample
11/1/2024 13:43	0	5.11	1.39	322.3	1014.9	24.3	47.5	40.677	-73.9978	23.3	34.1	13.078	Sample
11/1/2024 13:44	0	5.59	1.64	319.9	1014.9	24.3	46.7	40.677	-73.9978	23.3	34.1	13.078	Sample
11/1/2024 13:45	0	5.53	1	300.3	1014.9	24.3	45.9	40.677	-73.9978	23.3	34	13.078	Sample
11/1/2024 13:46	0	10.59	1.69	323.6	1014.9	24.4	45.7	40.677	-73.9978	23.4	33.8	13.078	Sample
11/1/2024 13:47	0	14.37	1.82	321.2	1014.9	24.4	45.6	40.6771	-73.9978	23.7	34.1	13.075	Sample
11/1/2024 13:48	0	12.95	0.86	324.8	1014.9	24.4	45.8	40.6771	-73.9978	23.9	34	13.078	Sample
11/1/2024 13:49	0	12.56	1.29	319.9	1014.9	24.5	45.5	40.6771	-73.9978	24	33.8	13.078	Sample
11/1/2024 13:50	0	12.51	1.43	337.6	1015	24.5	45.1	40.6771	-73.9978	24.2	34.2	13.078	Sample
11/1/2024 13:51	0	14.05	1.27	317.2	1014.9	24.5	44.6	40.6771	-73.9978	24.7	34	13.078	Sample
11/1/2024 13:52	0	16.01	1.98	322.8	1015	24.5	44.5	40.6771	-73.9978	25.2	34.2	13.078	Sample
11/1/2024 13:53	0	15.53	1.48	310.1	1015	24.5	44.2	40.6771	-73.9978	25.7	34	13.078	Sample
11/1/2024 13:54	0	14.34	1.8	328.6	1015.2	24.5	44.2	40.6771	-73.9978	26.5	33.9	13.078	Sample
11/1/2024 13:55	0	15.32	1.48	327.6	1015.1	24.5	44.1	40.6771	-73.9978	26.6	34	13.078	Sample
11/1/2024 13:56	0	16.92	1.42	308.5	1015.1	24.5	44.4	40.6771	-73.9978	26.6	34.1	13.081	Sample
11/1/2024 13:57	0	16.52	1.42	330.2	1015.2	24.5	44.3	40.6771	-73.9978	27	34	13.075	Sample
11/1/2024 13:58	0	15.39	1.13	338.3	1015.3	24.5	44.2	40.6771	-73.9978	27.5	34.2	13.075	Sample
11/1/2024 13:59	0	15.3	0.56	330.3	1015.3	24.6	44.5	40.6771	-73.9978	27.7	34.2	13.075	Sample
11/1/2024 14:00	0	15.62	1.44	309.5	1015.3	24.6	44.2	40.6771	-73.9978	27.8	34.2	13.058	Sample
11/1/2024 14:01	0	15.64	1.82	330.1	1015.3	24.6	44.2	40.6771	-73.9978	27.8	33.9	13.058	Sample
11/1/2024 14:02	0	15.17	0.87	339.7	1015.3	24.6	44.5	40.6771	-73.9978	27.7	34	13.075	Sample
11/1/2024 14:03	0	14.93	1.41	346.1	1015.2	24.6	44.5	40.6771	-73.9978	27.6	34.1	13.072	Sample
11/1/2024 14:04	0	12.72	1.27	326.9	1015.2	24.7	44.3	40.6771	-73.9979	27.5	34	13.072	Sample
11/1/2024 14:05	0	12.07	1.89	323.1	1015.2	24.7	44	40.6771	-73.9979	27.5	34	13.069	Sample
11/1/2024 14:06	0	14.7	1.42	340.4	1015	24.7	43.6	40.6771	-73.9979	27.4	34	13.064	Sample
11/1/2024 14:07	0	13.54	1.1	324.5	1015	24.7	43.9	40.6771	-73.9978	27.2	34.2	13.066	Sample
11/1/2024 14:08	0	13.49	1.26	323.7	1015.1	24.8	43.9	40.6771	-73.9978	27	34.1	13.064	Sample
11/1/2024 14:09	0	11.56	0.6	351.7	1015.1	24.8	44.2	40.6771	-73.9978	26.9	33.5	13.058	Sample
11/1/2024 14:10	0	11.02	0.95	319.1	1015.1	24.8	44.2	40.6771	-73.9978	27	34.2	13.066	Sample
11/1/2024 14:11	0	10.19	0.32	37.5	1015.1	24.8	44.5	40.6771	-73.9978	27.1	34.2	13.058	Sample
11/1/2024 14:12	0	10.11	1.08	337.2	1015.1	24.8	44.4	40.6771	-73.9978	26.7	34.1	13.052	Sample
11/1/2024 14:13	0	10.54	0.92	311.1	1014.9	24.9	44	40.6771	-73.9978	26	34.2	13.052	Sample
11/1/2024 14:14	0	10.72	0.73	326.8	1014.8	24.9	43.8	40.6771	-73.9978	24.7	34	13.049	Sample
11/1/2024 14:15	0	11.46	1.08	312.6	1014.6	24.9	43.8	40.6771	-73.9978	23.9	34	13.046	Sample
11/1/2024 14:16	0	12.23	0.74	330.3	1014.5	24.9	43.7	40.6771	-73.9978	23.2	34	13.043	Sample
11/1/2024 14:17	0	12.12	0.79	319.5	1014.5	24.9	43.6	40.6771	-73.9978	22.6	34	13.046	Sample
11/1/2024 14:18	0	11.81	1.17	306	1014.4	25	43.4	40.6771	-73.9978	22.3	34.1	13.043	Sample
11/1/2024 14:19	0	10.42	1.42	318.1	1014.3	25	43.1	40.6771	-73.9978	22.1	34	13.043	Sample
11/1/2024 14:20	0	9.73	0.98	324.8	1014.3	24.9	43.2	40.6771	-73.9978	22.1	34	13.043	Sample
11/1/2024 14:21	0	10.13	0.77	309.9	1014.3	25	43.5	40.677	-73.9978	22.1	34.1	13.046	Sample
11/1/2024 14:22	0	9.77	0.98	280.6	1014.3	25	43.1	40.677	-73.9978	22	34.2	13.043	Sample
11/1/2024 14:23	0	10.38	0.56	311.4	1014.3	25	43.1	40.677	-73.9978	21.9	34.1	13.04	Sample
11/1/2024 14:24	0	9.71	0.92	309.5	1014.3	25	42.8	40.677	-73.9978	21.8	33.8	13.043	Sample
11/1/2024 14:25	0	9.39	1.34	315.8	1014.3	25	42.5	40.677	-73.9978	21.8	34.1	13.04	Sample
11/1/2024 14:26	0	9.32	1.11	319.3	1014.3	25	42.5	40.677	-73.9978	21.7	33.9	13.04	Sample
11/1/2024 14:27	0	9.07	1.24	327.9	1014.2	25	42	40.677	-73.9978	21.3	33.7	13.043	Sample
11/1/2024 14:28	0	8.51	0.92	326.5	1014.2	25	41.8	40.677	-73.9978	21	34	13.04	Sample
11/1/2024 14:29	0	9.96	1.16	323.6	1014.2	25	41.4	40.677	-73.9978	20.5	33.9	13.043	Sample
11/1/2024 14:30	0	8.99	1.46	325.8	1014.1	25	39.5	40.677	-73.9978	20.5	34	13.04	Sample
11/1/2024 14:31	0	8.96	1.12	320.6	1014.1	25	38.9	40.677	-73.9978	20.5	34	13.043	Sample
11/1/2024 14:32	0	8.76	0.78	334.6	1014.1	25.1	38.5	40.677	-73.9978	20.2	33.9	13.04	Sample
11/1/2024 14:33	0	7.71	0.98	334.4	1014.1	25.1	37.5	40.677	-73.9978	20.1	33.9	13.023	Sample
11/1/2024 14:34	0	9.07	1.42	319.5	1014.1	25.2	35.5	40.677	-73.9978	20.2	33.9	13.037	Sample
11/1/2024 14:35	0	8.16	1.74	318	1014.1	25.2	34.9	40.677	-73.9978	20.4	34.2	13.04	Sample
11/1/2024 14:36	0	8.38	1.35	322	1014.1	25.2	34.6	40.677	-73.9978	20.4	33.8	13.034	Sample
11/1/2024 14:37	0.01	11.19	1.74	335.4	1014.1	25.2	34.5	40.677	-73.9978	20.3	33.9	13.028	Sample
11/1/2024 14:38	0	11.04	1.1	313.8	1014.1	25.2	34.8	40.677	-73.9978	20.2	34.1	13.031	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 14:39	0.02	9.11	0.69	262.9	1014.2	25.3	35.1	40.677	-73.9978	20.3	33.7	13.017	Sample
11/1/2024 14:40	0.06	7.75	0.86	322.1	1014.2	25.3	35.2	40.677	-73.9978	20.3	34	13.017	Sample
11/1/2024 14:41	0.04	7.9	0.55	258.3	1014.2	25.3	35.5	40.677	-73.9978	20.6	33.8	13.019	Sample
11/1/2024 14:42	0	7.84	1.21	296.9	1014.2	25.4	35	40.677	-73.9978	20.6	34	13.017	Sample
11/1/2024 14:43	0	7.69	1.02	329.4	1014.2	25.4	35.3	40.677	-73.9978	20.5	33.9	13.008	Sample
11/1/2024 14:44	0	8.24	0.78	323.5	1014.2	25.4	35.8	40.677	-73.9978	20.5	33.9	13.017	Sample
11/1/2024 14:45	0	7.79	1.37	309.4	1014.2	25.3	36.2	40.677	-73.9978	20.6	34	13.008	Sample
11/1/2024 14:46	0	7.94	1.47	332.4	1014.1	25.3	36.1	40.677	-73.9978	20.7	33.8	13.011	Sample
11/1/2024 14:47	0	8.14	1.07	317.6	1014.1	25.3	35.8	40.677	-73.9978	20.7	33.9	13.011	Sample
11/1/2024 14:48	0	6.9	0.98	345.2	1014.1	25.3	36.1	40.677	-73.9978	20.7	33.8	13.008	Sample
11/1/2024 14:49	0	7.1	0.9	314.9	1014.1	25.3	35.2	40.677	-73.9978	20.7	33.9	13.008	Sample
11/1/2024 14:50	0	6.58	0.81	305.5	1014.1	25.3	35	40.677	-73.9978	20.6	33.9	13.011	Sample
11/1/2024 14:51	0	6.91	0.92	350.2	1014.1	25.3	34.8	40.677	-73.9978	20.6	33.8	13.005	Sample
11/1/2024 14:52	0	6.96	0.98	296.7	1014.1	25.3	34.7	40.677	-73.9978	20.5	33.7	13.008	Sample
11/1/2024 14:53	0	7.21	1.1	311	1014.1	25.3	34.5	40.677	-73.9978	20.5	33.8	13.008	Sample
11/1/2024 14:54	0	7.45	0.84	323.7	1014.1	25.3	34.6	40.677	-73.9978	20.4	33.9	13.008	Sample
11/1/2024 14:55	0	6.86	0.99	330.3	1014.1	25.3	34.5	40.677	-73.9978	20.4	33.8	13.008	Sample
11/1/2024 14:56	0	6.74	1.26	309.1	1014.1	25.3	34.4	40.677	-73.9978	20.4	33.7	13.008	Sample
11/1/2024 14:57	0	7.1	1.19	320.9	1014.1	25.3	34.1	40.677	-73.9978	20.4	33.8	13.011	Sample
11/1/2024 14:58	0	7.73	1.42	323.6	1014.1	25.3	34.1	40.677	-73.9978	20.4	33.7	13.008	Sample
11/1/2024 14:59	0	7.24	1.26	331.7	1014.1	25.3	34.2	40.677	-73.9978	20.4	33.7	13.008	Sample
11/1/2024 15:00	0	6.63	1.89	313.1	1014.1	25.3	34.5	40.677	-73.9978	20.4	33.9	13.008	Sample
11/1/2024 15:01	0	6.36	1.45	312.1	1014.1	25.2	34.6	40.677	-73.9978	20.4	34	13.008	Sample
11/1/2024 15:02	0	6.74	1.55	330.4	1014.1	25.2	34.8	40.677	-73.9978	20.5	34	12.999	Sample
11/1/2024 15:03	0	7.57	1.42	317.9	1014.1	25.2	34.4	40.677	-73.9978	20.6	33.8	13.002	Sample
11/1/2024 15:04	0	6.76	1.03	326.3	1014.1	25.2	34.8	40.677	-73.9978	20.5	33.8	13.008	Sample
11/1/2024 15:05	0	6.72	1.02	350.8	1014.1	25.2	35	40.677	-73.9978	20.6	33.8	12.993	Sample
11/1/2024 15:06	0	6.89	1.38	323.2	1014.1	25.2	35.1	40.677	-73.9978	20.6	33.9	12.996	Sample
11/1/2024 15:07	0	6.71	1.21	332.1	1014.1	25.2	35.3	40.677	-73.9978	20.7	33.7	13.005	Sample
11/1/2024 15:08	0	6.8	1.61	324.3	1014.1	25.2	35	40.677	-73.9978	20.8	33.8	13.005	Sample
11/1/2024 15:09	0	6.16	1.45	308.3	1014.1	25.2	35.2	40.677	-73.9978	20.8	33.8	13.005	Sample
11/1/2024 15:10	0	6.68	1	300.3	1014	25.2	34.4	40.677	-73.9978	20.6	34.1	13.008	Sample
11/1/2024 15:11	0	6.23	1.48	329.8	1014.1	25.2	34.3	40.677	-73.9978	20.7	33.8	13.002	Sample
11/1/2024 15:12	0	5.99	1.61	331.5	1014.1	25.2	33.5	40.677	-73.9978	20.6	33.7	13.005	Sample
11/1/2024 15:13	0	6.23	1.62	320	1014.1	25.3	33.3	40.677	-73.9978	20.6	33.7	13.008	Sample
11/1/2024 15:14	0	7.31	1.19	340.2	1014.1	25.3	33.6	40.677	-73.9978	20.5	33.8	13.002	Sample
11/1/2024 15:15	0	6.92	0.8	196.2	1014.1	25.3	34.1	40.677	-73.9978	20.5	33.7	12.999	Sample
11/1/2024 15:16	0	7.14	1.01	327.7	1014.1	25.3	34.2	40.677	-73.9978	20.4	33.8	13.002	Sample
11/1/2024 15:17	0	6.57	1.69	326	1014.1	25.2	33.7	40.677	-73.9978	20.3	33.8	12.996	Sample
11/1/2024 15:18	0	5.59	1.31	323.3	1014.1	25.2	33.3	40.677	-73.9978	20.3	33.7	12.999	Sample
11/1/2024 15:19	0	6.32	0.8	316.6	1014.2	25.2	33.5	40.677	-73.9978	20.4	33.8	12.993	Sample
11/1/2024 15:20	0	6.41	1.47	323.2	1014.2	25.2	33.8	40.677	-73.9978	20.4	33.8	12.987	Sample
11/1/2024 15:21	0	5.34	0.97	314.1	1014.2	25.2	33.8	40.677	-73.9978	20.4	33.7	12.99	Sample
11/1/2024 15:22	0	6.21	0.9	335.6	1014.2	25.2	33.9	40.677	-73.9978	20.3	33.9	12.996	Sample
11/1/2024 15:23	0	5.55	0.78	11.8	1014.2	25.2	33.9	40.677	-73.9978	20.3	33.9	12.987	Sample
11/1/2024 15:24	0	6.52	0.83	307.8	1014.2	25.2	34	40.677	-73.9978	20.2	33.3	12.987	Sample
11/1/2024 15:25	0	6.19	0.46	283.3	1014.2	25.3	34.3	40.677	-73.9978	20.2	33.6	12.99	Sample
11/1/2024 15:26	0	6.23	1.08	335.4	1014.2	25.3	33.9	40.677	-73.9978	20.2	33.7	12.993	Sample
11/1/2024 15:27	0	6.2	0.98	322.5	1014.2	25.3	34.1	40.677	-73.9978	20.1	33.6	12.981	Sample
11/1/2024 15:28	0	6.34	1.46	317.1	1014.2	25.3	34.2	40.677	-73.9978	19.8	33.7	12.987	Sample
11/1/2024 15:29	0	6.05	1.48	303.2	1014.2	25.2	34.4	40.677	-73.9978	19.5	33.5	12.984	Sample
11/1/2024 15:30	0	5.46	1	298.4	1014.1	25.2	34.8	40.677	-73.9978	19	33.8	12.987	Sample
11/1/2024 15:31	0	5.91	1.11	307.2	1014.1	25.2	34.6	40.677	-73.9978	18.9	33.8	12.976	Sample
11/1/2024 15:32	0	3.41	1.11	333.5	1014.1	25.2	35.2	40.677	-73.9978	18.9	33.9	12.979	Sample
11/1/2024 15:33	0	2.77	1.15	323.9	1014.1	25.1	35.2	40.677	-73.9978	18.8	33.9	12.981	Sample
11/1/2024 15:34	0	2.74	1.01	316.1	1014.1	25.1	34.9	40.677	-73.9978	18.7	33.8	12.976	Sample
11/1/2024 15:35	0	2.52	0.73	311.2	1014.1	25.2	34.9	40.677	-73.9978	18.6	33.8	12.973	Sample
11/1/2024 15:36	0	2.8	0.86	316.9	1014.1	25.2	34.8	40.6769	-73.9978	18.6	33.5	12.973	Sample
11/1/2024 15:37	0	2.49	0.62	305.3	1014.1	25.2	34.6	40.6769	-73.9978	18.6	33.6	12.979	Sample
11/1/2024 15:38	0	2.72	1.12	313.7	1014.1	25.2	34	40.6769	-73.9978	18.4	33.7	12.984	Sample
11/1/2024 15:39	0	2.82	0.6	330.9	1014	25.2	34.5	40.6769	-73.9978	18.3	33.5	12.973	Sample
11/1/2024 15:40	0	4.43	1.19	345.7	1014	25.2	34.3	40.6769	-73.9978	18.4	33.9	12.973	Sample
11/1/2024 15:41	0	3.74	0.59	358.8	1014.1	25.2	34.5	40.6769	-73.9978	18.4	33.8	12.973	Sample
11/1/2024 15:42	0	3	0.86	351.1	1014.1	25.2	34.5	40.6769	-73.9978	18.4	33.7	12.973	Sample
11/1/2024 15:43	0	2.43	1.16	307.3	1014	25.2	34.3	40.6769	-73.9978	18.3	33.7	12.976	Sample
11/1/2024 15:44	0	2.69	1.37	353.9	1014.1	25.2	34.2	40.6769	-73.9978	18.2	33.8	12.976	Sample
11/1/2024 15:45	0	3.69	1.23	322.3	1014.1	25.2	34.1	40.6769	-73.9978	18.1	33.6	12.973	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 15:46	0	2.93	0.84	309.5	1014.1	25.2	34	40.6769	-73.9978	17.9	33.9	12.973	Sample
11/1/2024 15:47	0	2.98	1.57	314.9	1014.1	25.2	34.1	40.6769	-73.9978	18	33.8	12.973	Sample
11/1/2024 15:48	0	2.74	0.96	338.4	1014.1	25.2	34.2	40.6769	-73.9978	18	33.8	12.976	Sample
11/1/2024 15:49	0	2.68	1.08	331	1014.1	25.2	34.2	40.6769	-73.9978	17.9	33.8	12.973	Sample
11/1/2024 15:50	0	5.35	0.91	340.1	1014.1	25.2	34.4	40.6769	-73.9978	17.8	33.8	12.973	Sample
11/1/2024 15:51	0	7.13	1.33	311	1014.1	25.2	33.8	40.6769	-73.9978	17.6	33.5	12.967	Sample
11/1/2024 15:52	0	9.22	1.23	329.7	1014.1	25.2	33.4	40.6769	-73.9978	17.5	33.7	12.976	Sample
11/1/2024 15:53	0	9.61	1.3	327.9	1014	25.2	33.1	40.6769	-73.9978	17.3	33.6	12.973	Sample
11/1/2024 15:54	0	6	1.1	306.8	1014	25.2	32.6	40.6769	-73.9978	17.1	33.7	12.973	Sample
11/1/2024 15:55	0	4.5	0.9	336.6	1014.1	25.2	32.7	40.6769	-73.9978	17.1	33.7	12.973	Sample
11/1/2024 15:56	0	3.01	1.4	343.6	1014.1	25.2	32.6	40.6769	-73.9978	17.1	33.8	12.976	Sample
11/1/2024 15:57	0	3.32	1.56	328.2	1014	25.2	32.2	40.6769	-73.9978	16.9	33.7	12.97	Sample
11/1/2024 15:58	0	3.22	0.91	333.9	1014.1	25.2	32.8	40.6769	-73.9978	16.8	33.7	12.973	Sample
11/1/2024 15:59	0	3.69	1.12	305.9	1014.1	25.2	32.9	40.677	-73.9978	16.9	33.9	12.973	Sample
11/1/2024 16:00	0	4.12	0.57	295.4	1014.1	25.2	33.5	40.677	-73.9978	17	33.6	12.973	Sample
11/1/2024 16:01	0	4.49	1.02	350.1	1014.1	25.2	33.6	40.677	-73.9978	17	33.7	12.973	Sample
11/1/2024 16:02	0	4.44	0.93	321.1	1014.1	25.1	33.5	40.677	-73.9978	16.8	33.7	12.973	Sample
11/1/2024 16:03	0	4.07	0.74	317.5	1014.2	25.1	33.8	40.677	-73.9978	16.8	33.6	12.97	Sample
11/1/2024 16:04	0	3.6	0.84	289.1	1014.1	25.1	34.1	40.677	-73.9978	16.8	33.7	12.973	Sample
11/1/2024 16:05	0	3.45	1.13	357.5	1014.1	25.1	34	40.677	-73.9978	16.8	33.6	12.973	Sample
11/1/2024 16:06	0	3.01	1.54	327.8	1014.1	25	33.4	40.677	-73.9978	16.8	33.7	12.973	Sample
11/1/2024 16:07	0	3.01	1.35	311.4	1014.1	25	33.1	40.677	-73.9978	16.8	33.8	12.961	Sample
11/1/2024 16:08	0	2.98	1.23	298.8	1014.2	25	33.1	40.677	-73.9978	16.8	33.6	12.97	Sample
11/1/2024 16:09	0	2.84	1.79	328.9	1014.2	25	33	40.677	-73.9978	16.8	33.7	12.973	Sample
11/1/2024 16:10	0	2.93	1.43	313.4	1014.2	25	32.7	40.677	-73.9978	16.7	33.9	12.973	Sample
11/1/2024 16:11	0	2.56	2.23	324.6	1014.2	25	32.8	40.677	-73.9978	16.8	33.9	12.97	Sample
11/1/2024 16:12	0	3.04	1.69	317.4	1014.2	25	33.1	40.677	-73.9978	16.8	33.8	12.973	Sample
11/1/2024 16:13	0	2.77	2.11	321.5	1014.2	25	33.2	40.677	-73.9978	16.7	33.5	12.973	Sample
11/1/2024 16:14	0	2.79	1.67	341.9	1014.1	24.9	33.3	40.677	-73.9978	16.6	33.5	12.973	Sample
11/1/2024 16:15	0	2.88	0.97	308.9	1014.2	24.9	33.5	40.677	-73.9978	16.6	33.6	12.973	Sample
11/1/2024 16:16	0	2.64	1.25	329.8	1014.2	24.9	33.5	40.677	-73.9978	16.6	33.6	12.973	Sample
11/1/2024 16:17	0	2.55	0.85	314.7	1014.3	24.9	33.7	40.677	-73.9978	16.7	33.6	12.967	Sample
11/1/2024 16:18	0	2.78	0.76	335.5	1014.3	24.9	33.9	40.677	-73.9978	16.7	34	12.973	Sample
11/1/2024 16:19	0	2.94	0.95	311.2	1014.3	25	33.8	40.677	-73.9978	16.7	33.7	12.976	Sample
11/1/2024 16:20	0	2.97	1.11	309.4	1014.4	25	33.6	40.677	-73.9978	16.7	33.8	12.973	Sample
11/1/2024 16:21	0	2.57	1.08	310.7	1014.4	25	33.7	40.677	-73.9978	16.8	33.8	12.973	Sample
11/1/2024 16:22	0	2.52	0.52	330.2	1014.4	25	34	40.677	-73.9978	16.8	33.7	12.97	Sample
11/1/2024 16:23	0	2.52	0.58	271.9	1014.3	25	34	40.677	-73.9978	16.7	33.8	12.97	Sample
11/1/2024 16:24	0	2.64	0.51	318.8	1014.3	25	34.3	40.677	-73.9978	16.5	33.7	12.979	Sample
11/1/2024 16:25	0	2.52	0.96	307.6	1014.3	25	34	40.677	-73.9978	16.4	33.7	12.973	Sample
11/1/2024 16:26	0	2.44	1.02	322.8	1014.3	25	33.6	40.677	-73.9978	16.4	33.5	12.973	Sample
11/1/2024 16:27	0	2.59	0.56	283.6	1014.3	25	33.8	40.677	-73.9978	16.3	33.5	12.976	Sample
11/1/2024 16:28	0	3.06	1.25	305.7	1014.3	24.9	33.4	40.677	-73.9978	16.1	33.5	12.967	Sample
11/1/2024 16:29	0	2.9	0.58	46.4	1014.3	24.9	33.7	40.677	-73.9978	15.9	33.7	12.973	Sample
11/1/2024 16:30	0	2.82	0.9	294.4	1014.3	24.9	33.8	40.677	-73.9978	15.8	33.5	12.973	Sample
11/1/2024 16:31	0	2.5	0.96	323.6	1014.3	24.9	33.9	40.677	-73.9978	15.8	33.6	12.97	Sample
11/1/2024 16:32	0	2.47	1.07	327.9	1014.3	24.9	33.8	40.677	-73.9978	15.6	33.7	12.976	Sample
11/1/2024 16:33	0	2.34	0.92	340.8	1014.3	24.9	34.2	40.677	-73.9978	15.5	33.8	12.97	Sample
11/1/2024 16:34	0	2.64	1.63	313.1	1014.3	24.9	34	40.677	-73.9978	15.3	33.6	12.97	Sample
11/1/2024 16:35	0	2.64	0.73	305.2	1014.4	24.9	34.2	40.677	-73.9978	15.2	33.6	12.976	Sample
11/1/2024 16:36	0	2.63	1.32	307.7	1014.3	24.8	34.5	40.6771	-73.9978	15.3	33.8	12.973	Sample
11/1/2024 16:37	0	2.55	0.98	307.4	1014.4	24.8	34.9	40.6771	-73.9978	15.3	33.3	12.966	Sample

WSP · Luquer Street Brooklyn · 2318 (AQS1 19052023-2318)
Instrument Data export
11/1/2024 to 11/1/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude (	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 9:09		34.32										13.184	Sample
11/1/2024 9:10	0	89.3										13.148	Sample
11/1/2024 9:11	0.01	39.29										13.09	Sample
11/1/2024 9:12													Zero
11/1/2024 9:13													Zero
11/1/2024 9:14													Zero
11/1/2024 9:15													Zero
11/1/2024 9:16	0	10.39										13.031	Sample
11/1/2024 9:17	0.01	10.49										13.034	Sample
11/1/2024 9:18	0.02	10.34										13.037	Sample
11/1/2024 9:19	0.01	10.66										13.031	Sample
11/1/2024 9:20	0	12.29										13.025	Sample
11/1/2024 9:21	0	9.84										13.034	Sample
11/1/2024 9:22	0.06	11.75										13.034	Sample
11/1/2024 9:23	0.16	14.03										13.019	Sample
11/1/2024 9:24	0.12	9.9										13.008	Sample
11/1/2024 9:25	0.09	9.43										13.025	Sample
11/1/2024 9:26	0.04	10.08										13.023	Sample
11/1/2024 9:27	0.01	9.57										13.023	Sample
11/1/2024 9:28	0.01	10.5										13.025	Sample
11/1/2024 9:29	0.02	11.06										13.017	Sample
11/1/2024 9:30	0.02	10.02										13.014	Sample
11/1/2024 9:31	0.01	11.56										13.014	Sample
11/1/2024 9:32	0.03	11.08										13.019	Sample
11/1/2024 9:33	0.07	39.03										13.019	Sample
11/1/2024 9:34	0.13	54.08										13.019	Sample
11/1/2024 9:35	0.17	37.6										13.025	Sample
11/1/2024 9:36	0.2	16.1										13.019	Sample
11/1/2024 9:37	0.2	46.65										13.019	Sample
11/1/2024 9:38	0.33	59.03										13.019	Sample
11/1/2024 9:39	0.52	27.61										13.019	Sample
11/1/2024 9:40	0.36	53.72										13.025	Sample
11/1/2024 9:41	0.07	10.37										13.028	Sample
11/1/2024 9:42	0	9.82										13.017	Sample
11/1/2024 9:43	0	11.66										13.011	Sample
11/1/2024 9:44	0	11.69										13.023	Sample
11/1/2024 9:45	0	9.08										13.017	Sample
11/1/2024 9:46	0	8.74										13.025	Sample
11/1/2024 9:47	0	9.6										13.017	Sample
11/1/2024 9:48	0	9.7										13.014	Sample
11/1/2024 9:49	0	10.37										13.023	Sample
11/1/2024 9:50	0	8.87										13.017	Sample
11/1/2024 9:51	0	8.58										13.014	Sample
11/1/2024 9:52	0	8.02										13.014	Sample
11/1/2024 9:53	0	7.9										13.023	Sample
11/1/2024 9:54	0	8.39										13.017	Sample
11/1/2024 9:55	0	7.81										13.025	Sample
11/1/2024 9:56	0	7.75										13.019	Sample
11/1/2024 9:57	0	7.19										13.025	Sample
11/1/2024 9:58	0	7.33										13.028	Sample
11/1/2024 9:59	0	7.56										13.014	Sample
11/1/2024 10:00	0	7.55										13.031	Sample
11/1/2024 10:01	0	7.92										13.028	Sample
11/1/2024 10:02	0	7.83										13.019	Sample
11/1/2024 10:03	0	7.85										13.017	Sample
11/1/2024 10:04	0	7.27										13.025	Sample
11/1/2024 10:05	0.01	7.45										13.017	Sample
11/1/2024 10:06	0	7.92										13.017	Sample
11/1/2024 10:07	0	7.5										13.028	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 10:08	0	7.44										13.023	Sample
11/1/2024 10:09	0	7.66										13.028	Sample
11/1/2024 10:10	0	7.35										13.025	Sample
11/1/2024 10:11	0	7.16										13.017	Sample
11/1/2024 10:12	0	7.41										13.019	Sample
11/1/2024 10:13	0	7.34										13.023	Sample
11/1/2024 10:14	0	7.54										13.019	Sample
11/1/2024 10:15	0	7.6										13.025	Sample
11/1/2024 10:16	0	7.3										13.031	Sample
11/1/2024 10:17	0	7.26										13.011	Sample
11/1/2024 10:18	0	7.19										13.017	Sample
11/1/2024 10:19	0	7.32										13.028	Sample
11/1/2024 10:20	0	6.97										13.011	Sample
11/1/2024 10:21	0	6.86										13.014	Sample
11/1/2024 10:22	0	7.2										13.023	Sample
11/1/2024 10:23	0	8.1										13.019	Sample
11/1/2024 10:24	0	6.77										13.023	Sample
11/1/2024 10:25	0	7.24										13.014	Sample
11/1/2024 10:26	0	7.48										13.017	Sample
11/1/2024 10:27	0	7.78										13.019	Sample
11/1/2024 10:28	0	7.82										13.014	Sample
11/1/2024 10:29	0.01	8.3										13.019	Sample
11/1/2024 10:30	0	8.17										13.019	Sample
11/1/2024 10:31	0	8.61										13.025	Sample
11/1/2024 10:32	0	7.81										13.017	Sample
11/1/2024 10:33	0.01	7.68										13.019	Sample
11/1/2024 10:34	0.01	7.45										13.025	Sample
11/1/2024 10:35	0.02	7.94										13.023	Sample
11/1/2024 10:36	0.02	7.35										13.023	Sample
11/1/2024 10:37	0.02	11.39										13.017	Sample
11/1/2024 10:38	0.01	7.73										13.031	Sample
11/1/2024 10:39	0.01	7.23										13.028	Sample
11/1/2024 10:40	0	7.61										13.031	Sample
11/1/2024 10:41	0	7.36										13.025	Sample
11/1/2024 10:42	0.01	7.22										13.031	Sample
11/1/2024 10:43	0	8.4										13.023	Sample
11/1/2024 10:44	0	9.96										13.028	Sample
11/1/2024 10:45	0.01	8.86										13.019	Sample
11/1/2024 10:46	0.02	8.51										13.023	Sample
11/1/2024 10:47	0.02	8.76										13.019	Sample
11/1/2024 10:48	0.01	7.84										13.023	Sample
11/1/2024 10:49	0.01	8.36										13.011	Sample
11/1/2024 10:50	0.01	8.62										13.008	Sample
11/1/2024 10:51	0.01	8.35										13.014	Sample
11/1/2024 10:52	0.01	8.51										13.025	Sample
11/1/2024 10:53	0.01	8.06										13.019	Sample
11/1/2024 10:54	0.01	7.74										13.017	Sample
11/1/2024 10:55	0.01	8.17										13.025	Sample
11/1/2024 10:56	0.02	8.18										13.019	Sample
11/1/2024 10:57	0.02	7.25										13.017	Sample
11/1/2024 10:58	0.02	7.65										13.014	Sample
11/1/2024 10:59	0.02	7.73										13.014	Sample
11/1/2024 11:00	0.02	7.53										13.014	Sample
11/1/2024 11:01	0.02	8.34										13.019	Sample
11/1/2024 11:02	0.03	8.56										13.017	Sample
11/1/2024 11:03	0.02	8.24										13.017	Sample
11/1/2024 11:04	0.01	8.53										13.028	Sample
11/1/2024 11:05	0.01	7.58										13.023	Sample
11/1/2024 11:06	0.01	7.78										13.017	Sample
11/1/2024 11:07	0.01	9.38										13.017	Sample
11/1/2024 11:08	0.01	8.4										13.014	Sample
11/1/2024 11:09	0.01	7.77										13.014	Sample
11/1/2024 11:10	0.01	8.19										13.017	Sample
11/1/2024 11:11	0.01	7.62										13.011	Sample
11/1/2024 11:12	0.01	8.88										13.014	Sample
11/1/2024 11:13	0.01	9.83										13.011	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 11:14	0.01	9.47										13.011	Sample
11/1/2024 11:15	0.01	8.18										13.011	Sample
11/1/2024 11:16	0.01	8.4										13.011	Sample
11/1/2024 11:17	0.01	7.52										13.008	Sample
11/1/2024 11:18	0.01	7.88										13.014	Sample
11/1/2024 11:19	0.01	8.07										13.017	Sample
11/1/2024 11:20	0.01	7.79										13.017	Sample
11/1/2024 11:21	0.01	8.33										13.008	Sample
11/1/2024 11:22	0.01	10.01										13.017	Sample
11/1/2024 11:23	0.02	9.1										13.017	Sample
11/1/2024 11:24	0.04	8.95										13.011	Sample
11/1/2024 11:25	0.03	8.53										13.017	Sample
11/1/2024 11:26	0.02	9.55										13.011	Sample
11/1/2024 11:27	0.01	7.71										13.023	Sample
11/1/2024 11:28	0.01	7.09										13.011	Sample
11/1/2024 11:29	0.01	7.74										13.011	Sample
11/1/2024 11:30	0.01	14.56										13.014	Sample
11/1/2024 11:31	0	17.56										13.014	Sample
11/1/2024 11:32	0	7.98										13.014	Sample
11/1/2024 11:33	0.01	7.68										13.011	Sample
11/1/2024 11:34	0.01	7.76										13.011	Sample
11/1/2024 11:35	0.01	7.84										13.014	Sample
11/1/2024 11:36	0.01	7.68										13.017	Sample
11/1/2024 11:37	0.01	8.22										13.014	Sample
11/1/2024 11:38	0	8.28										13.014	Sample
11/1/2024 11:39	0	7.69										13.008	Sample
11/1/2024 11:40	0	7.55										13.011	Sample
11/1/2024 11:41	0	7.59										13.008	Sample
11/1/2024 11:42	0.01	7.63										13.014	Sample
11/1/2024 11:43	0.01	7										13.008	Sample
11/1/2024 11:44	0	7.05										13.011	Sample
11/1/2024 11:45	0	7.73										13.011	Sample
11/1/2024 11:46	0	6.69										13.011	Sample
11/1/2024 11:47	0	6.93										13.008	Sample
11/1/2024 11:48	0.01	6.53										13.008	Sample
11/1/2024 11:49	0.01	7.03										13.011	Sample
11/1/2024 11:50	0.01	6.79										13.005	Sample
11/1/2024 11:51	0.01	6.08										13.008	Sample
11/1/2024 11:52	0	6.54										13.017	Sample
11/1/2024 11:53	0	6.95										13.008	Sample
11/1/2024 11:54	0	6.94										13.008	Sample
11/1/2024 11:55	0	7.03										13.008	Sample
11/1/2024 11:56	0	6.33										13.008	Sample
11/1/2024 11:57	0	6.31										13.008	Sample
11/1/2024 11:58	0.23	6										13.014	Sample
11/1/2024 11:59	0.61	5.97										13.008	Sample
11/1/2024 12:00	0.35	6.91										13.008	Sample
11/1/2024 12:01	0.01	7.16										13.011	Sample
11/1/2024 12:02	0.01	8.27										13.008	Sample
11/1/2024 12:03	0.01	8.19										13.008	Sample
11/1/2024 12:04	0.01	8.99										13.017	Sample
11/1/2024 12:05	0.01	8.45										13.008	Sample
11/1/2024 12:06	0.01	7.78										13.011	Sample
11/1/2024 12:07	0.01	6.88										13.008	Sample
11/1/2024 12:08	0.01	6.62										13.008	Sample
11/1/2024 12:09	0.01	7.16										13.017	Sample
11/1/2024 12:10	0.01	6.93										13.008	Sample
11/1/2024 12:11	0.01	7.32										13.011	Sample
11/1/2024 12:12	0.01	6.57										13.008	Sample
11/1/2024 12:13	0.02	6.53										13.008	Sample
11/1/2024 12:14	0.01	6.6										13.008	Sample
11/1/2024 12:15	0	6.71										13.008	Sample
11/1/2024 12:16	0	6										13.008	Sample
11/1/2024 12:17	0	6.21										13.008	Sample
11/1/2024 12:18	0	6.58										13.008	Sample
11/1/2024 12:19	0	8.44										13.011	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 12:20	0	8.29										13.008	Sample
11/1/2024 12:21	0	8.51										13.011	Sample
11/1/2024 12:22	0	10.86										13.008	Sample
11/1/2024 12:23	0	10.24										13.005	Sample
11/1/2024 12:24	0	9.52										13.008	Sample
11/1/2024 12:25	0	8.5										13.011	Sample
11/1/2024 12:26	0	13.33										13.008	Sample
11/1/2024 12:27	0	9.33										13.011	Sample
11/1/2024 12:28	0	8.67										13.011	Sample
11/1/2024 12:29	0	7.63										13.008	Sample
11/1/2024 12:30	0	6.69										13.008	Sample
11/1/2024 12:31	0	8.15										13.008	Sample
11/1/2024 12:32	0	8.61										13.008	Sample
11/1/2024 12:33	0	16.35										13.005	Sample
11/1/2024 12:34	0	11.73										13.008	Sample
11/1/2024 12:35	0	25.29										13.008	Sample
11/1/2024 12:36	0	9.54										13.008	Sample
11/1/2024 12:37	0	8.99										13.008	Sample
11/1/2024 12:38	0	9.36										13.008	Sample
11/1/2024 12:39	0	8.43										13.005	Sample
11/1/2024 12:40	0	8.01										13.008	Sample
11/1/2024 12:41	0	6.89										13.008	Sample
11/1/2024 12:42	0	7.6										13.008	Sample
11/1/2024 12:43	0	7.41										13.008	Sample
11/1/2024 12:44	0	8.12										13.008	Sample
11/1/2024 12:45	0	8.4										13.008	Sample
11/1/2024 12:46	0	11.46										13.008	Sample
11/1/2024 12:47	0	11.07										13.008	Sample
11/1/2024 12:48	0	12.39										13.008	Sample
11/1/2024 12:49	0	13.16										13.008	Sample
11/1/2024 12:50	0	13										13.005	Sample
11/1/2024 12:51	0	11.13										13.002	Sample
11/1/2024 12:52	0	8.68										13.005	Sample
11/1/2024 12:53	0	9.17										13.002	Sample
11/1/2024 12:54	0	8.68										13.008	Sample
11/1/2024 12:55	0	21.89										13.002	Sample
11/1/2024 12:56	0	30.69										13.008	Sample
11/1/2024 12:57	0	7.86										13.008	Sample
11/1/2024 12:58	0	9.42										13.005	Sample
11/1/2024 12:59	0	8.17										13.005	Sample
11/1/2024 13:00	0	9.14										13.008	Sample
11/1/2024 13:01	0	8.45										13.008	Sample
11/1/2024 13:02	0	7.7										13.005	Sample
11/1/2024 13:03	0	6.93										13.008	Sample
11/1/2024 13:04	0	6.95										13.008	Sample
11/1/2024 13:05	0	10.04										13.005	Sample
11/1/2024 13:06	0	9.78										13.005	Sample
11/1/2024 13:07	0	12.18										13.002	Sample
11/1/2024 13:08	0	10.06										13.008	Sample
11/1/2024 13:09	0	10.38										12.999	Sample
11/1/2024 13:10													Zero
11/1/2024 13:11													Zero
11/1/2024 13:12													Zero
11/1/2024 13:13	0	10.68										13.008	Sample
11/1/2024 13:14	0	9.82										13.002	Sample
11/1/2024 13:15	0.01	7.77										12.999	Sample
11/1/2024 13:16	0.01	8.42										13.005	Sample
11/1/2024 13:17	0.01	11										13.005	Sample
11/1/2024 13:18	0	12.5										13.005	Sample
11/1/2024 13:19	0	9.31										12.996	Sample
11/1/2024 13:20	0	9.2										13.005	Sample
11/1/2024 13:21	0	10.04										13.008	Sample
11/1/2024 13:22	0	15.8										13.002	Sample
11/1/2024 13:23	0	9.39										13.008	Sample
11/1/2024 13:24	0.01	11.36										13.005	Sample
11/1/2024 13:25	0	14.74										13.005	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 13:26	0	11.46										12.99	Sample
11/1/2024 13:27	0	11.48										13.008	Sample
11/1/2024 13:28	0	10.68										12.996	Sample
11/1/2024 13:29	0	10.77										12.999	Sample
11/1/2024 13:30	0	9.14										13.005	Sample
11/1/2024 13:31	0	10										13.002	Sample
11/1/2024 13:32	0	9.19										13.002	Sample
11/1/2024 13:33	0	10.94										13.002	Sample
11/1/2024 13:34	0	13.31										13.005	Sample
11/1/2024 13:35	0	11.82										13.005	Sample
11/1/2024 13:36	0	12.6										13.005	Sample
11/1/2024 13:37	0.01	15.05										12.987	Sample
11/1/2024 13:38	0	14.72										12.993	Sample
11/1/2024 13:39	0	13.68										13.002	Sample
11/1/2024 13:40	0	10.42										12.999	Sample
11/1/2024 13:41	0	9.35										12.984	Sample
11/1/2024 13:42	0	9.97										12.999	Sample
11/1/2024 13:43	0	11										12.996	Sample
11/1/2024 13:44	0	12.73										12.999	Sample
11/1/2024 13:45	0	12.84										12.99	Sample
11/1/2024 13:46	0	12.69										12.999	Sample
11/1/2024 13:47	0	11.78										12.984	Sample
11/1/2024 13:48	0	10.46										12.984	Sample
11/1/2024 13:49	0	10.36										13.005	Sample
11/1/2024 13:50	0	15.69										12.993	Sample
11/1/2024 13:51	0	26.46										12.973	Sample
11/1/2024 13:52	0	25.94										12.987	Sample
11/1/2024 13:53	0	24.25										12.984	Sample
11/1/2024 13:54	0	22.55										12.979	Sample
11/1/2024 13:55	0	19.97										12.979	Sample
11/1/2024 13:56	0	19.14										12.976	Sample
11/1/2024 13:57	0	17.9										12.976	Sample
11/1/2024 13:58	0	21.05										12.979	Sample
11/1/2024 13:59	0	19.68										12.981	Sample
11/1/2024 14:00	0	18.66										12.976	Sample
11/1/2024 14:01	0	17.04										12.984	Sample
11/1/2024 14:02	0	18.23										12.976	Sample
11/1/2024 14:03	0	24.41										12.976	Sample
11/1/2024 14:04	0	25.89										12.973	Sample
11/1/2024 14:05	0	21.99										12.973	Sample
11/1/2024 14:06	0	30.08										12.979	Sample
11/1/2024 14:07	0	26.45										12.973	Sample
11/1/2024 14:08	0	23.88										12.976	Sample
11/1/2024 14:09	0	20.82										12.973	Sample
11/1/2024 14:10	0	19.11										12.976	Sample
11/1/2024 14:11	0	17.32										12.973	Sample
11/1/2024 14:12	0	17.71										12.973	Sample
11/1/2024 14:13	0	15.82										12.973	Sample
11/1/2024 14:14	0	16.26										12.973	Sample
11/1/2024 14:15	0	16.45										12.973	Sample
11/1/2024 14:16	0	15.29										12.976	Sample
11/1/2024 14:17	0	15.19										12.973	Sample
11/1/2024 14:18	0	16.92										12.97	Sample
11/1/2024 14:19	0	15.55										12.976	Sample
11/1/2024 14:20	0	13.2										12.97	Sample
11/1/2024 14:21	0	14.7										12.973	Sample
11/1/2024 14:22	0	13.48										12.973	Sample
11/1/2024 14:23	0	13.49										12.967	Sample
11/1/2024 14:24	0	12.57										12.97	Sample
11/1/2024 14:25	0	13.74										12.97	Sample
11/1/2024 14:26	0	12.39										12.961	Sample
11/1/2024 14:27	0	12.19										12.97	Sample
11/1/2024 14:28	0	12.27										12.967	Sample
11/1/2024 14:29	0	13.07										12.961	Sample
11/1/2024 14:30	0	13.5										12.964	Sample
11/1/2024 14:31	0	14.52										12.958	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 14:32	0	14.05										12.967	Sample
11/1/2024 14:33	0	13.96										12.958	Sample
11/1/2024 14:34	0	17.95										12.964	Sample
11/1/2024 14:35	0	16.62										12.949	Sample
11/1/2024 14:36	0.08	17.66										12.958	Sample
11/1/2024 14:37	0.2	41.45										12.946	Sample
11/1/2024 14:38	0.12	38.07										12.943	Sample
11/1/2024 14:39	0.15	26.22										12.946	Sample
11/1/2024 14:40	0.08	23.66										12.943	Sample
11/1/2024 14:41	0.06	20.82										12.946	Sample
11/1/2024 14:42	0.04	19.78										12.943	Sample
11/1/2024 14:43	0	20.14										12.938	Sample
11/1/2024 14:44	0	17.61										12.94	Sample
11/1/2024 14:45	0	16.51										12.938	Sample
11/1/2024 14:46	0.01	16.05										12.938	Sample
11/1/2024 14:47	0	16.64										12.938	Sample
11/1/2024 14:48	0	16.83										12.94	Sample
11/1/2024 14:49	0	16.8										12.938	Sample
11/1/2024 14:50	0	15.23										12.932	Sample
11/1/2024 14:51	0	17.29										12.938	Sample
11/1/2024 14:52	0	16.33										12.938	Sample
11/1/2024 14:53	0	16.86										12.94	Sample
11/1/2024 14:54	0	16.28										12.935	Sample
11/1/2024 14:55	0	15.86										12.935	Sample
11/1/2024 14:56	0	16.47										12.932	Sample
11/1/2024 14:57	0	16.75										12.938	Sample
11/1/2024 14:58	0	16.12										12.935	Sample
11/1/2024 14:59	0	15.27										12.935	Sample
11/1/2024 15:00	0	14.91										12.92	Sample
11/1/2024 15:01	0	16.83										12.92	Sample
11/1/2024 15:02	0	16.51										12.926	Sample
11/1/2024 15:03	0	16.66										12.923	Sample
11/1/2024 15:04	0	15.7										12.92	Sample
11/1/2024 15:05	0	14.95										12.914	Sample
11/1/2024 15:06	0	15										12.911	Sample
11/1/2024 15:07	0	15										12.914	Sample
11/1/2024 15:08	0	14.95										12.905	Sample
11/1/2024 15:09	0	16.5										12.908	Sample
11/1/2024 15:10	0	17.67										12.905	Sample
11/1/2024 15:11	0	17.26										12.908	Sample
11/1/2024 15:12	0	27.88										12.905	Sample
11/1/2024 15:13	0	21.78										12.905	Sample
11/1/2024 15:14	0	21.54										12.908	Sample
11/1/2024 15:15	0	20.56										12.902	Sample
11/1/2024 15:16	0	20.67										12.902	Sample
11/1/2024 15:17	0	22.07										12.905	Sample
11/1/2024 15:18	0	23.52										12.902	Sample
11/1/2024 15:19	0	20.42										12.902	Sample
11/1/2024 15:20	0	20.8										12.902	Sample
11/1/2024 15:21	0	20.97										12.902	Sample
11/1/2024 15:22	0	19.95										12.902	Sample
11/1/2024 15:23	0	21.7										12.902	Sample
11/1/2024 15:24	0	21.01										12.902	Sample
11/1/2024 15:25	0	20.65										12.899	Sample
11/1/2024 15:26	0	21.4										12.902	Sample
11/1/2024 15:27	0	21.93										12.902	Sample
11/1/2024 15:28	0	21.97										12.902	Sample
11/1/2024 15:29	0	20.42										12.905	Sample
11/1/2024 15:30	0	19.79										12.899	Sample
11/1/2024 15:31	0	19.34										12.888	Sample
11/1/2024 15:32	0	18.23										12.899	Sample
11/1/2024 15:33	0	17.54										12.896	Sample
11/1/2024 15:34	0	18.66										12.899	Sample
11/1/2024 15:35	0	18.13										12.899	Sample
11/1/2024 15:36	0	17.6										12.896	Sample
11/1/2024 15:37	0	16.82										12.899	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 15:38	0	17.3										12.896	Sample
11/1/2024 15:39	0	18.19										12.902	Sample
11/1/2024 15:40	0	17.29										12.896	Sample
11/1/2024 15:41	0	17.21										12.902	Sample
11/1/2024 15:42	0	16.52										12.891	Sample
11/1/2024 15:43	0	17.08										12.888	Sample
11/1/2024 15:44	0	15.36										12.894	Sample
11/1/2024 15:45	0	14.4										12.888	Sample
11/1/2024 15:46	0	14.84										12.891	Sample
11/1/2024 15:47	0.03	14.72										12.885	Sample
11/1/2024 15:48	0.08	13.3										12.885	Sample
11/1/2024 15:49	0.04	15.12										12.894	Sample
11/1/2024 15:50	0.01	28.21										12.888	Sample
11/1/2024 15:51	0	21.97										12.882	Sample
11/1/2024 15:52	0	16.48										12.885	Sample
11/1/2024 15:53	0	17.97										12.885	Sample
11/1/2024 15:54	0	15.73										12.876	Sample
11/1/2024 15:55	0	15.73										12.882	Sample
11/1/2024 15:56	0	15.7										12.879	Sample
11/1/2024 15:57	0	18.43										12.876	Sample
11/1/2024 15:58	0	18.12										12.873	Sample
11/1/2024 15:59	0	21.91										12.873	Sample
11/1/2024 16:00	0	19.9										12.87	Sample
11/1/2024 16:01	0	23.64										12.879	Sample
11/1/2024 16:02	0	20.98										12.876	Sample
11/1/2024 16:03	0	17.27										12.87	Sample
11/1/2024 16:04	0	15.81										12.87	Sample
11/1/2024 16:05	0	15.9										12.873	Sample
11/1/2024 16:06	0	16.06										12.87	Sample
11/1/2024 16:07	0	15.67										12.87	Sample
11/1/2024 16:08	0	17.6										12.867	Sample
11/1/2024 16:09	0	20.25										12.87	Sample
11/1/2024 16:10	0	19.09										12.867	Sample
11/1/2024 16:11	0	19.37										12.87	Sample
11/1/2024 16:12	0	18.58										12.876	Sample
11/1/2024 16:13	0	17.61										12.867	Sample
11/1/2024 16:14	0	17.81										12.87	Sample
11/1/2024 16:15	0	16.39										12.873	Sample
11/1/2024 16:16	0	16.57										12.867	Sample
11/1/2024 16:17	0	15.79										12.87	Sample
11/1/2024 16:18	0	14.56										12.867	Sample
11/1/2024 16:19	0	13.53										12.867	Sample
11/1/2024 16:20	0	13.79										12.867	Sample
11/1/2024 16:21	0	13.6										12.867	Sample
11/1/2024 16:22	0	12.82										12.867	Sample
11/1/2024 16:23	0	12.88										12.867	Sample
11/1/2024 16:24	0	11.88										12.867	Sample
11/1/2024 16:25	0	14.59										12.87	Sample
11/1/2024 16:26	0	13.06										12.867	Sample
11/1/2024 16:27	0	12.74										12.867	Sample
11/1/2024 16:28	0	22.77										12.867	Sample

WSP · Luquer Street Brooklyn · 2319 (AQS1 19052023-2319)
Instrument Data export
11/1/2024 to 11/1/2024
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 9:10	0	29.02										13.236	Sample
11/1/2024 9:11	0	8.2										13.219	Sample
11/1/2024 9:12													Zero
11/1/2024 9:13													Zero
11/1/2024 9:14													Zero
11/1/2024 9:15													Zero
11/1/2024 9:16	0	5.89										13.143	Sample
11/1/2024 9:17	0	6.47										13.146	Sample
11/1/2024 9:18	0	5.99										13.143	Sample
11/1/2024 9:19	0.02	6.27										13.14	Sample
11/1/2024 9:20	0.01	5.85										13.137	Sample
11/1/2024 9:21	0.04	6.14										13.14	Sample
11/1/2024 9:22	0.31	5.82										13.148	Sample
11/1/2024 9:23	0.14	5.68										13.14	Sample
11/1/2024 9:24	0.11	5.81										13.14	Sample
11/1/2024 9:25	0.1	6.36										13.148	Sample
11/1/2024 9:26	0.03	5.73										13.14	Sample
11/1/2024 9:27	0.03	5.78										13.137	Sample
11/1/2024 9:28	0.02	6.09										13.116	Sample
11/1/2024 9:29	0.02	6.22										13.14	Sample
11/1/2024 9:30	0.01	6.32										13.137	Sample
11/1/2024 9:31	0.01	6.17										13.14	Sample
11/1/2024 9:32	0.02	6.23										13.148	Sample
11/1/2024 9:33	0.01	6.47										13.131	Sample
11/1/2024 9:34	0.01	6.05										13.143	Sample
11/1/2024 9:35	0	6.41										13.131	Sample
11/1/2024 9:36	0	5.94										13.131	Sample
11/1/2024 9:37	0	6.05										13.146	Sample
11/1/2024 9:38	0	6.05										13.134	Sample
11/1/2024 9:39	0	5.99										13.137	Sample
11/1/2024 9:40	0	5.9										13.137	Sample
11/1/2024 9:41	0	5.97										13.143	Sample
11/1/2024 9:42	0	5.68										13.143	Sample
11/1/2024 9:43	0	5.9										13.143	Sample
11/1/2024 9:44	0	5.78										13.137	Sample
11/1/2024 9:45	0	5.7										13.14	Sample
11/1/2024 9:46	0	5.93										13.131	Sample
11/1/2024 9:47	0	6.59										13.14	Sample
11/1/2024 9:48	0	6.54										13.134	Sample
11/1/2024 9:49	0	6.16										13.128	Sample
11/1/2024 9:50	0	6.06										13.14	Sample
11/1/2024 9:51	0	6.23										13.14	Sample
11/1/2024 9:52	0	5.9										13.131	Sample
11/1/2024 9:53	0	5.45										13.131	Sample
11/1/2024 9:54	0	5.11										13.146	Sample
11/1/2024 9:55	0	5.22										13.122	Sample
11/1/2024 9:56	0	5.2										13.146	Sample
11/1/2024 9:57	0	5.23										13.146	Sample
11/1/2024 9:58	0	5.05										13.134	Sample
11/1/2024 9:59	0	5.4										13.131	Sample
11/1/2024 10:00	0	5.4										13.146	Sample
11/1/2024 10:01	0	5.3										13.131	Sample
11/1/2024 10:02	0	5.37										13.134	Sample
11/1/2024 10:03	0	5.45										13.137	Sample
11/1/2024 10:04	0	5.14										13.131	Sample
11/1/2024 10:05	0	5.04										13.134	Sample
11/1/2024 10:06	0	5										13.137	Sample
11/1/2024 10:07	0	5.06										13.143	Sample
11/1/2024 10:08	0	5.52										13.137	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 10:09	0	5.62										13.14	Sample
11/1/2024 10:10	0	5.19										13.137	Sample
11/1/2024 10:11	0	4.79										13.146	Sample
11/1/2024 10:12	0	5.1										13.131	Sample
11/1/2024 10:13	0	5.11										13.14	Sample
11/1/2024 10:14	0	5.4										13.134	Sample
11/1/2024 10:15	0	5.26										13.146	Sample
11/1/2024 10:16	0	5.31										13.143	Sample
11/1/2024 10:17	0	5.37										13.137	Sample
11/1/2024 10:18	0	5.61										13.14	Sample
11/1/2024 10:19	0	5.34										13.128	Sample
11/1/2024 10:20	0	4.97										13.137	Sample
11/1/2024 10:21	0	4.88										13.122	Sample
11/1/2024 10:22	0	5.13										13.134	Sample
11/1/2024 10:23	0	5.27										13.143	Sample
11/1/2024 10:24	0	5.22										13.134	Sample
11/1/2024 10:25	0	5.72										13.137	Sample
11/1/2024 10:26	0	5.54										13.14	Sample
11/1/2024 10:27	0	5.35										13.14	Sample
11/1/2024 10:28	0	5.21										13.137	Sample
11/1/2024 10:29	0	5.71										13.148	Sample
11/1/2024 10:30	0	5.41										13.134	Sample
11/1/2024 10:31	0	6.8										13.134	Sample
11/1/2024 10:32	0	5.76										13.131	Sample
11/1/2024 10:33	0	5.91										13.131	Sample
11/1/2024 10:34	0	5.07										13.14	Sample
11/1/2024 10:35	0	5.02										13.143	Sample
11/1/2024 10:36	0	5.17										13.134	Sample
11/1/2024 10:37	0	5.85										13.131	Sample
11/1/2024 10:38	0	5.18										13.134	Sample
11/1/2024 10:39	0	4.98										13.134	Sample
11/1/2024 10:40	0	4.8										13.128	Sample
11/1/2024 10:41	0	4.81										13.125	Sample
11/1/2024 10:42	0	5.87										13.134	Sample
11/1/2024 10:43	0	6.16										13.14	Sample
11/1/2024 10:44	0	8.38										13.137	Sample
11/1/2024 10:45	0	6.38										13.134	Sample
11/1/2024 10:46	0	6.02										13.143	Sample
11/1/2024 10:47	0	6.05										13.131	Sample
11/1/2024 10:48	0	5.69										13.137	Sample
11/1/2024 10:49	0	5.77										13.143	Sample
11/1/2024 10:50	0	5.74										13.131	Sample
11/1/2024 10:51	0	5.95										13.119	Sample
11/1/2024 10:52	0	6										13.134	Sample
11/1/2024 10:53	0	5.49										13.131	Sample
11/1/2024 10:54	0	5.51										13.131	Sample
11/1/2024 10:55	0	5.81										13.137	Sample
11/1/2024 10:56	0	5.2										13.134	Sample
11/1/2024 10:57	0	5.21										13.134	Sample
11/1/2024 10:58	0	5.17										13.134	Sample
11/1/2024 10:59	0	5.41										13.131	Sample
11/1/2024 11:00	0	5.39										13.131	Sample
11/1/2024 11:01	0	5.96										13.137	Sample
11/1/2024 11:02	0	6.19										13.134	Sample
11/1/2024 11:03	0	6.61										13.134	Sample
11/1/2024 11:04	0	6.78										13.122	Sample
11/1/2024 11:05	0	5.77										13.134	Sample
11/1/2024 11:06	0	6.93										13.128	Sample
11/1/2024 11:07	0	7.66										13.122	Sample
11/1/2024 11:08	0	7.31										13.119	Sample
11/1/2024 11:09	0	7.07										13.134	Sample
11/1/2024 11:10	0	7.47										13.128	Sample
11/1/2024 11:11	0	8.45										13.128	Sample
11/1/2024 11:12	0	8.16										13.131	Sample
11/1/2024 11:13	0	8.45										13.137	Sample
11/1/2024 11:14	0	7.48										13.134	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 11:15	0	6.34										13.131	Sample
11/1/2024 11:16	0	6.26										13.125	Sample
11/1/2024 11:17	0	8.48										13.134	Sample
11/1/2024 11:18	0	5.74										13.131	Sample
11/1/2024 11:19	0	6.27										13.122	Sample
11/1/2024 11:20	0	5.31										13.131	Sample
11/1/2024 11:21	0	6.86										13.125	Sample
11/1/2024 11:22	0	6.53										13.134	Sample
11/1/2024 11:23	0	6.15										13.131	Sample
11/1/2024 11:24	0	6.99										13.128	Sample
11/1/2024 11:25	0	6.76										13.128	Sample
11/1/2024 11:26	0	6.94										13.125	Sample
11/1/2024 11:27	0	6.05										13.125	Sample
11/1/2024 11:28	0	6										13.131	Sample
11/1/2024 11:29	0	6.04										13.122	Sample
11/1/2024 11:30	0	6.47										13.134	Sample
11/1/2024 11:31	0	7.27										13.122	Sample
11/1/2024 11:32	0	6.79										13.134	Sample
11/1/2024 11:33	0	6.45										13.134	Sample
11/1/2024 11:34	0	6.88										13.128	Sample
11/1/2024 11:35	0	6.43										13.125	Sample
11/1/2024 11:36	0	6.1										13.128	Sample
11/1/2024 11:37	0	6.05										13.125	Sample
11/1/2024 11:38	0	6.79										13.131	Sample
11/1/2024 11:39	0	6.18										13.119	Sample
11/1/2024 11:40	0	6.13										13.119	Sample
11/1/2024 11:41	0	6.01										13.119	Sample
11/1/2024 11:42	0	6.01										13.122	Sample
11/1/2024 11:43	0	6.29										13.116	Sample
11/1/2024 11:44	0	6.03										13.125	Sample
11/1/2024 11:45	0	5.48										13.116	Sample
11/1/2024 11:46	0	4.73										13.125	Sample
11/1/2024 11:47	0	5.05										13.122	Sample
11/1/2024 11:48	0	4.95										13.131	Sample
11/1/2024 11:49	0	5.35										13.122	Sample
11/1/2024 11:50	0	5.19										13.122	Sample
11/1/2024 11:51	0	5.07										13.122	Sample
11/1/2024 11:52	0	5.75										13.122	Sample
11/1/2024 11:53	0	5.63										13.125	Sample
11/1/2024 11:54	0	5.56										13.128	Sample
11/1/2024 11:55	0	5.84										13.131	Sample
11/1/2024 11:56	0	5.46										13.113	Sample
11/1/2024 11:57	0	4.99										13.116	Sample
11/1/2024 11:58	0	4.86										13.122	Sample
11/1/2024 11:59	0	5.18										13.119	Sample
11/1/2024 12:00	0	5.21										13.125	Sample
11/1/2024 12:01	0	6.15										13.119	Sample
11/1/2024 12:02	0	7.92										13.116	Sample
11/1/2024 12:03	0	7.68										13.119	Sample
11/1/2024 12:04	0.04	6.62										13.122	Sample
11/1/2024 12:05	0.02	6.82										13.125	Sample
11/1/2024 12:06	0.03	6.4										13.122	Sample
11/1/2024 12:07	0.01	5.92										13.122	Sample
11/1/2024 12:08	0	5.4										13.119	Sample
11/1/2024 12:09	0	5.45										13.113	Sample
11/1/2024 12:10	0	5.76										13.131	Sample
11/1/2024 12:11	0	5.54										13.113	Sample
11/1/2024 12:12	0	5.45										13.116	Sample
11/1/2024 12:13	0	5.14										13.116	Sample
11/1/2024 12:14	0	4.87										13.125	Sample
11/1/2024 12:15	0	4.82										13.119	Sample
11/1/2024 12:16	0	4.26										13.116	Sample
11/1/2024 12:17	0	4.19										13.116	Sample
11/1/2024 12:18	0	4.77										13.122	Sample
11/1/2024 12:19	0	6.21										13.113	Sample
11/1/2024 12:20	0	5.07										13.116	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 12:21	0	5.04										13.119	Sample
11/1/2024 12:22	0	6.21										13.113	Sample
11/1/2024 12:23	0	4.62										13.119	Sample
11/1/2024 12:24	0	4.38										13.116	Sample
11/1/2024 12:25	0	4.56										13.119	Sample
11/1/2024 12:26	0	5.46										13.113	Sample
11/1/2024 12:27	0	6.23										13.116	Sample
11/1/2024 12:28	0	6.58										13.113	Sample
11/1/2024 12:29	0	6.51										13.119	Sample
11/1/2024 12:30	0	5.35										13.116	Sample
11/1/2024 12:31	0	4.46										13.107	Sample
11/1/2024 12:32	0	4.33										13.11	Sample
11/1/2024 12:33	0	4.42										13.119	Sample
11/1/2024 12:34	0	4.59										13.113	Sample
11/1/2024 12:35	0	3.94										13.116	Sample
11/1/2024 12:36	0	4.26										13.122	Sample
11/1/2024 12:37	0	4.21										13.113	Sample
11/1/2024 12:38	0	4.62										13.116	Sample
11/1/2024 12:39	0	4.5										13.116	Sample
11/1/2024 12:40	0	5.24										13.113	Sample
11/1/2024 12:41	0	4.91										13.113	Sample
11/1/2024 12:42	0	4.4										13.116	Sample
11/1/2024 12:43	0	3.93										13.104	Sample
11/1/2024 12:44	0	4										13.113	Sample
11/1/2024 12:45	0	5.83										13.113	Sample
11/1/2024 12:46	0	4.98										13.116	Sample
11/1/2024 12:47	0	5.7										13.113	Sample
11/1/2024 12:48	0	8.81										13.116	Sample
11/1/2024 12:49	0	8.57										13.113	Sample
11/1/2024 12:50	0	8.33										13.113	Sample
11/1/2024 12:51	0	8.24										13.116	Sample
11/1/2024 12:52	0	6.87										13.113	Sample
11/1/2024 12:53	0	6.89										13.113	Sample
11/1/2024 12:54	0	7.76										13.113	Sample
11/1/2024 12:55	0	8.33										13.119	Sample
11/1/2024 12:56	0	7.96										13.116	Sample
11/1/2024 12:57	0	8.38										13.107	Sample
11/1/2024 12:58	0	8.44										13.116	Sample
11/1/2024 12:59	0	7.4										13.113	Sample
11/1/2024 13:00	0	6.51										13.113	Sample
11/1/2024 13:01	0	6.96										13.122	Sample
11/1/2024 13:02	0	7.38										13.113	Sample
11/1/2024 13:03	0	7.6										13.113	Sample
11/1/2024 13:04	0	7.71										13.113	Sample
11/1/2024 13:05	0	9.2										13.113	Sample
11/1/2024 13:06	0	9.87										13.113	Sample
11/1/2024 13:07	0	13.01										13.116	Sample
11/1/2024 13:08	0	9.09										13.11	Sample
11/1/2024 13:09	0	7.42										13.107	Sample
11/1/2024 13:10													Zero
11/1/2024 13:11													Zero
11/1/2024 13:12													Zero
11/1/2024 13:13	0	5.56										13.113	Sample
11/1/2024 13:14	0	7.22										13.113	Sample
11/1/2024 13:15	0	6.16										13.11	Sample
11/1/2024 13:16	0	6.69										13.113	Sample
11/1/2024 13:17	0	7.52										13.113	Sample
11/1/2024 13:18	0	6.19										13.11	Sample
11/1/2024 13:19	0	6.04										13.107	Sample
11/1/2024 13:20	0	6.17										13.11	Sample
11/1/2024 13:21	0	7.67										13.113	Sample
11/1/2024 13:22	0	7.72										13.113	Sample
11/1/2024 13:23	0	4.94										13.11	Sample
11/1/2024 13:24	0	5.93										13.113	Sample
11/1/2024 13:25	0	7.15										13.113	Sample
11/1/2024 13:26	0	5.82										13.113	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 13:27	0	5.9										13.11	Sample
11/1/2024 13:28	0	5.84										13.113	Sample
11/1/2024 13:29	0	5.88										13.113	Sample
11/1/2024 13:30	0	6.06										13.107	Sample
11/1/2024 13:31	0	5.5										13.113	Sample
11/1/2024 13:32	0	5.17										13.11	Sample
11/1/2024 13:33	0	6.06										13.107	Sample
11/1/2024 13:34	0	7.15										13.099	Sample
11/1/2024 13:35	0	7.12										13.11	Sample
11/1/2024 13:36	0	6.42										13.11	Sample
11/1/2024 13:37	0	6.98										13.11	Sample
11/1/2024 13:38	0	6.61										13.107	Sample
11/1/2024 13:39	0	15.69										13.11	Sample
11/1/2024 13:40	0	7.29										13.104	Sample
11/1/2024 13:41	0	5.12										13.104	Sample
11/1/2024 13:42	0	6.91										13.104	Sample
11/1/2024 13:43	0	7.33										13.087	Sample
11/1/2024 13:44	0	12.91										13.102	Sample
11/1/2024 13:45	0	10.77										13.11	Sample
11/1/2024 13:46	0	8.74										13.104	Sample
11/1/2024 13:47	0	7.32										13.104	Sample
11/1/2024 13:48	0	5.85										13.096	Sample
11/1/2024 13:49	0	5.63										13.102	Sample
11/1/2024 13:50	0	8.62										13.107	Sample
11/1/2024 13:51	0	23.61										13.084	Sample
11/1/2024 13:52	0	13.24										13.093	Sample
11/1/2024 13:53	0	12.32										13.093	Sample
11/1/2024 13:54	0	13.16										13.099	Sample
11/1/2024 13:55	0	17.18										13.084	Sample
11/1/2024 13:56	0	17.95										13.099	Sample
11/1/2024 13:57	0.02	15.85										13.087	Sample
11/1/2024 13:58	0.01	9.73										13.084	Sample
11/1/2024 13:59	0	16.12										13.087	Sample
11/1/2024 14:00	0	10.46										13.093	Sample
11/1/2024 14:01	0	10.54										13.09	Sample
11/1/2024 14:02	0	10.71										13.096	Sample
11/1/2024 14:03	0	7.95										13.084	Sample
11/1/2024 14:04	0	6.54										13.084	Sample
11/1/2024 14:05	0	6.6										13.084	Sample
11/1/2024 14:06	0	9.71										13.09	Sample
11/1/2024 14:07	0	8.49										13.087	Sample
11/1/2024 14:08	0	7.01										13.078	Sample
11/1/2024 14:09	0	13.8										13.078	Sample
11/1/2024 14:10	0	11.55										13.081	Sample
11/1/2024 14:11	0	8.77										13.081	Sample
11/1/2024 14:12	0	8.35										13.084	Sample
11/1/2024 14:13	0	14.29										13.081	Sample
11/1/2024 14:14	0	14.46										13.078	Sample
11/1/2024 14:15	0	6.54										13.078	Sample
11/1/2024 14:16	0	6.56										13.078	Sample
11/1/2024 14:17	0	7.9										13.078	Sample
11/1/2024 14:18	0	6.85										13.078	Sample
11/1/2024 14:19	0	6.01										13.078	Sample
11/1/2024 14:20	0	5.69										13.084	Sample
11/1/2024 14:21	0	8.14										13.078	Sample
11/1/2024 14:22	0	6.68										13.081	Sample
11/1/2024 14:23	0	5.9										13.075	Sample
11/1/2024 14:24	0	5.69										13.078	Sample
11/1/2024 14:25	0	5.86										13.084	Sample
11/1/2024 14:26	0	5.21										13.078	Sample
11/1/2024 14:27	0	5.16										13.066	Sample
11/1/2024 14:28	0	6.26										13.075	Sample
11/1/2024 14:29	0	5.8										13.075	Sample
11/1/2024 14:30	0	6.71										13.075	Sample
11/1/2024 14:31	0	7.33										13.072	Sample
11/1/2024 14:32	0	10.38										13.075	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 14:33	0	12.34										13.078	Sample
11/1/2024 14:34	0	10.08										13.064	Sample
11/1/2024 14:35	0	9.2										13.058	Sample
11/1/2024 14:36	0	6.86										13.061	Sample
11/1/2024 14:37	0	19										13.055	Sample
11/1/2024 14:38	0	10.01										13.046	Sample
11/1/2024 14:39	0	11.3										13.069	Sample
11/1/2024 14:40	0	11.06										13.061	Sample
11/1/2024 14:41	0	10.85										13.052	Sample
11/1/2024 14:42	0	13.59										13.046	Sample
11/1/2024 14:43	0	15.46										13.046	Sample
11/1/2024 14:44	0	12.07										13.043	Sample
11/1/2024 14:45	0	11.51										13.055	Sample
11/1/2024 14:46	0	10.48										13.043	Sample
11/1/2024 14:47	0	9.91										13.049	Sample
11/1/2024 14:48	0	9.32										13.043	Sample
11/1/2024 14:49	0	9.63										13.043	Sample
11/1/2024 14:50	0	8.84										13.043	Sample
11/1/2024 14:51	0	15.69										13.046	Sample
11/1/2024 14:52	0	17.31										13.046	Sample
11/1/2024 14:53	0	13.67										13.04	Sample
11/1/2024 14:54	0	15.33										13.04	Sample
11/1/2024 14:55	0	14.19										13.052	Sample
11/1/2024 14:56	0	13.55										13.046	Sample
11/1/2024 14:57	0	14.23										13.043	Sample
11/1/2024 14:58	0	14.57										13.037	Sample
11/1/2024 14:59	0	14.6										13.043	Sample
11/1/2024 15:00	0	15.26										13.043	Sample
11/1/2024 15:01	0	15.05										13.04	Sample
11/1/2024 15:02	0	16.95										13.037	Sample
11/1/2024 15:03	0	14.17										13.037	Sample
11/1/2024 15:04	0	14.24										13.034	Sample
11/1/2024 15:05	0.03	21.69										13.019	Sample
11/1/2024 15:06	0.01	12.45										13.017	Sample
11/1/2024 15:07	0	12.37										13.034	Sample
11/1/2024 15:08	0	12.64										13.025	Sample
11/1/2024 15:09	0	12.38										13.019	Sample
11/1/2024 15:10	0	11.82										13.028	Sample
11/1/2024 15:11	0	12.65										13.017	Sample
11/1/2024 15:12	0	11.54										13.017	Sample
11/1/2024 15:13	0	11.01										13.014	Sample
11/1/2024 15:14	0	10.13										13.008	Sample
11/1/2024 15:15	0	10.15										13.011	Sample
11/1/2024 15:16	0	9.83										13.008	Sample
11/1/2024 15:17	0	9.88										13.008	Sample
11/1/2024 15:18	0	9.59										13.014	Sample
11/1/2024 15:19	0	9.09										13.011	Sample
11/1/2024 15:20	0	7.19										13.011	Sample
11/1/2024 15:21	0	7.09										13.008	Sample
11/1/2024 15:22	0	6.71										13.014	Sample
11/1/2024 15:23	0	7.22										13.008	Sample
11/1/2024 15:24	0	6.93										13.008	Sample
11/1/2024 15:25	0	7.57										13.011	Sample
11/1/2024 15:26	0	8.6										13.011	Sample
11/1/2024 15:27	0	7.76										13.008	Sample
11/1/2024 15:28	0	7.59										13.005	Sample
11/1/2024 15:29	0	8.61										13.008	Sample
11/1/2024 15:30	0	8.19										13.008	Sample
11/1/2024 15:31	0	7.73										13.005	Sample
11/1/2024 15:32	0	7.75										13.002	Sample
11/1/2024 15:33	0	7.66										13.005	Sample
11/1/2024 15:34	0	8.05										13.005	Sample
11/1/2024 15:35	0	8.84										12.987	Sample
11/1/2024 15:36	0	7.64										13.002	Sample
11/1/2024 15:37	0	9.83										13.005	Sample
11/1/2024 15:38	0	8.3										13.002	Sample

Time	VOC (ppm)	PM10 (µg/r	WS (m/s)	WD (°)	PRESS (hP	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m	Compass (	Battery vol	Inlet
11/1/2024 15:39	0	9.31										13.005	Sample
11/1/2024 15:40	0	7.43										13.005	Sample
11/1/2024 15:41	0	6.1										12.999	Sample
11/1/2024 15:42	0	7.13										13.008	Sample
11/1/2024 15:43	0	8.91										13.005	Sample
11/1/2024 15:44	0	11.94										13.005	Sample
11/1/2024 15:45	0	16.04										13.005	Sample
11/1/2024 15:46	0	12.18										13.005	Sample
11/1/2024 15:47	0	12.43										13.005	Sample
11/1/2024 15:48	0	12.24										12.996	Sample
11/1/2024 15:49	0	13.2										13.002	Sample
11/1/2024 15:50	0	19.7										13.002	Sample
11/1/2024 15:51	0	11.93										13.005	Sample
11/1/2024 15:52	0	13.47										12.99	Sample
11/1/2024 15:53	0	11.44										12.993	Sample
11/1/2024 15:54	0	9.8										12.996	Sample
11/1/2024 15:55	0	11.79										12.996	Sample
11/1/2024 15:56	0	12.9										12.996	Sample
11/1/2024 15:57	0	14.49										12.99	Sample
11/1/2024 15:58	0	15.19										12.996	Sample
11/1/2024 15:59	0	13.81										12.99	Sample
11/1/2024 16:00	0	14.52										12.993	Sample
11/1/2024 16:01	0	12.59										12.99	Sample
11/1/2024 16:02	0	7.6										12.99	Sample
11/1/2024 16:03	0	7.98										12.996	Sample
11/1/2024 16:04	0	6.22										12.987	Sample
11/1/2024 16:05	0	8.06										12.981	Sample
11/1/2024 16:06	0	6.7										12.979	Sample
11/1/2024 16:07	0	7.2										12.981	Sample
11/1/2024 16:08	0	6.46										12.996	Sample
11/1/2024 16:09	0	5.75										12.979	Sample
11/1/2024 16:10	0	5.47										12.984	Sample
11/1/2024 16:11	0	6.3										12.981	Sample
11/1/2024 16:12	0	7.86										12.987	Sample
11/1/2024 16:13	0	10.97										12.984	Sample
11/1/2024 16:14	0	8.32										12.99	Sample
11/1/2024 16:15	0	5.05										12.993	Sample
11/1/2024 16:16	0	5.53										12.981	Sample
11/1/2024 16:17	0	5.04										12.984	Sample
11/1/2024 16:18	0	4.81										12.976	Sample
11/1/2024 16:19	0	5.82										12.981	Sample
11/1/2024 16:20	0	5.9										12.99	Sample
11/1/2024 16:21	0	5.39										12.973	Sample
11/1/2024 16:22	0	4.27										12.981	Sample
11/1/2024 16:23	0	4.14										12.976	Sample
11/1/2024 16:24	0	4.79										12.979	Sample
11/1/2024 16:25	0	5.23										12.981	Sample
11/1/2024 16:26	0	6.1										12.979	Sample
11/1/2024 16:27	0	4.77										12.976	Sample
11/1/2024 16:28	0	6.1										12.973	Sample
11/1/2024 16:29	0	5										12.979	Sample
11/1/2024 16:30	0	5.18										12.984	Sample
11/1/2024 16:31	0	4.15										12.984	Sample
11/1/2024 16:32	0	4.31										12.973	Sample
11/1/2024 16:33	0	4.79										12.976	Sample
11/1/2024 16:34	0	4.86										12.973	Sample
11/1/2024 16:35	0	4.99										12.976	Sample
11/1/2024 16:36	0	5.16										12.973	Sample

WSP · Luquer Street Brooklyn · 2317 (AQS1 19052023-2317)
Instrument Data export
11/4/2024 to 11/4/2024
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 9:30		4.16			1033	12	55.7				270.3	13.324	Sample
11/4/2024 9:31	0.05	4.23	1.1	103.7	1032.5	12	55.6	40.676998	-73.998199	-2.1	269.9	13.289	Sample
11/4/2024 9:32	0.01	5.6	0.63	87.4	1034.1	12	55.8	40.677101	-73.9981	8.1	270.2	13.195	Sample
11/4/2024 9:33													Zero
11/4/2024 9:34													Zero
11/4/2024 9:35													Zero
11/4/2024 9:36	0	5.17	1.48	93.8	1033.8	12.1	55.3	40.676998	-73.9981	7.7	270.3	13.148	Sample
11/4/2024 9:37	0	5.06	1.18	98.4	1034.1	12.2	55.4	40.676998	-73.9981	10.1	270.3	13.143	Sample
11/4/2024 9:38	0	4.61	0.89	94.4	1034.1	12.2	55.2	40.676998	-73.9981	10.6	270.4	13.148	Sample
11/4/2024 9:39	0	4.36	0.97	91.6	1036	12.2	55	40.676998	-73.9981	25.8	270.3	13.146	Sample
11/4/2024 9:40	0	3.65	1.13	103.2	1037.4	12.2	55	40.676998	-73.9981	37.2	270.5	13.14	Sample
11/4/2024 9:41	0	3.37	1.3	96.3	1036.3	12.3	54.9	40.676998	-73.9981	27.8	270.4	13.148	Sample
11/4/2024 9:42	0	6.5	1.05	85.4	1036.1	12.3	54.8	40.676998	-73.9981	26.9	270.4	13.146	Sample
11/4/2024 9:43	0	7.21	1	98.1	1035.2	12.3	54.8	40.676998	-73.9981	19.3	270.5	13.143	Sample
11/4/2024 9:44	0	5.4	0.84	100.4	1035.2	12.4	54.9	40.676998	-73.9981	19	270	13.137	Sample
11/4/2024 9:45	0	4.45	0.7	95.9	1035	12.5	54.9	40.676998	-73.9981	17.8	270	13.122	Sample
11/4/2024 9:46	0	3.35	1.14	97.9	1035	12.5	54.8	40.676998	-73.9981	17.7	269.9	13.128	Sample
11/4/2024 9:47	0	2.63	1.09	92.9	1034.9	12.5	54.7	40.676998	-73.9981	17.6	269.8	13.146	Sample
11/4/2024 9:48	0	3.2	0.66	106.5	1034.8	12.6	54.6	40.676998	-73.9981	16.3	269.7	13.143	Sample
11/4/2024 9:49	0	6.3	1.1	88.7	1034.8	12.6	54.6	40.676998	-73.9981	16.2	269.8	13.137	Sample
11/4/2024 9:50	0	8.06	1.34	96.2	1034.8	12.7	54.6	40.676998	-73.9981	15.9	269.9	13.146	Sample
11/4/2024 9:51	0	9.48	1.12	94.3	1034.7	12.7	54.6	40.676998	-73.9981	16.2	269.9	13.146	Sample
11/4/2024 9:52	0	3.01	0.93	100.2	1034.7	12.7	54.7	40.676998	-73.9981	16.1	269.8	13.137	Sample
11/4/2024 9:53	0	2.61	0.83	107.8	1034.7	12.8	54.6	40.676998	-73.9981	16	269.8	13.137	Sample
11/4/2024 9:54	0	2.66	0.88	102.1	1034.7	12.8	54.5	40.676998	-73.9981	16	269.8	13.137	Sample
11/4/2024 9:55	0	2.54	1.09	92.5	1034.8	12.9	54.5	40.676998	-73.9981	16.3	269.8	13.122	Sample
11/4/2024 9:56	0	2.61	1.83	94.3	1034.8	13	54.4	40.676998	-73.9981	16.3	269.8	13.14	Sample
11/4/2024 9:57	0	2.54	1.51	93.9	1034.7	13	54.3	40.676998	-73.9981	16	269.8	13.134	Sample
11/4/2024 9:58	0	2.67	1.65	95.8	1034.7	13	54.4	40.676998	-73.9981	16	269.8	13.14	Sample
11/4/2024 9:59	0.05	2.79	1.72	95.9	1034.7	13	54.3	40.676998	-73.9981	16.1	269.9	13.146	Sample
11/4/2024 10:00	0.06	3.17	1.56	94.9	1034.7	13	54.3	40.676998	-73.9981	16.2	270	13.131	Sample
11/4/2024 10:01	0.01	2.34	1.3	94.1	1034.6	13	54.3	40.676998	-73.9981	15.8	269.9	13.143	Sample
11/4/2024 10:02	0	2.39	1.32	84.1	1034.6	13	54.2	40.676998	-73.9981	15.5	269.8	13.137	Sample
11/4/2024 10:03	0	2.27	1.44	95	1034.6	13	54.4	40.676998	-73.9981	15.6	269.9	13.131	Sample
11/4/2024 10:04	0	2.23	1.49	94.9	1034.5	13	54.3	40.676998	-73.9981	15.4	269.8	13.131	Sample
11/4/2024 10:05	0	2.41	1.18	87.9	1034.5	13	54.3	40.676998	-73.9981	15.2	269.6	13.128	Sample
11/4/2024 10:06	0	2.24	0.99	92.7	1034.4	13	54.4	40.676998	-73.9981	15.2	269.6	13.134	Sample
11/4/2024 10:07	0	2.48	1.12	88.2	1034.4	13	54.4	40.676998	-73.9981	15.2	269.7	13.128	Sample
11/4/2024 10:08	0	2.83	1.07	72.7	1034.4	13	54.4	40.676998	-73.9981	15.1	269.7	13.137	Sample
11/4/2024 10:09	0	2.69	1.62	92.5	1034.5	13	54.5	40.676998	-73.9981	15.1	269.7	13.119	Sample
11/4/2024 10:10	0	2.6	1.28	84.7	1034.5	13	54.6	40.676998	-73.9981	15.1	269.8	13.137	Sample
11/4/2024 10:11	0	2.44	1.18	93.3	1034.5	13	54.7	40.676998	-73.9981	15.1	269.6	13.134	Sample
11/4/2024 10:12	0	2.16	0.89	96.2	1034.5	13	54.9	40.676998	-73.9981	15.1	269.8	13.128	Sample
11/4/2024 10:13	0	2.56	1.46	97.1	1034.5	13	54.9	40.676998	-73.9981	14.9	269.6	13.134	Sample
11/4/2024 10:14	0	2.34	1.8	100.3	1034.4	13.1	54.9	40.676998	-73.9981	14.8	269.8	13.131	Sample
11/4/2024 10:15	0	2.24	1.7	95.3	1034.4	13.1	54.7	40.676998	-73.9981	14.7	269.7	13.116	Sample
11/4/2024 10:16	0	2.64	1.77	97.1	1034.3	13.1	54.7	40.676998	-73.9981	14.6	269.6	13.116	Sample
11/4/2024 10:17	0	2.64	1.83	96.2	1034.2	13	54.8	40.676998	-73.9981	14.6	269.6	13.128	Sample
11/4/2024 10:18	0	2.63	2.27	100	1034.3	13	54.7	40.676998	-73.9981	14.7	269.8	13.122	Sample
11/4/2024 10:19	0	2.56	1.41	92.4	1034.2	13	54.8	40.676998	-73.9981	14.8	269.7	13.116	Sample
11/4/2024 10:20	0	2.5	1.44	87.1	1034.2	13	54.9	40.676998	-73.9981	14.8	269.8	13.119	Sample
11/4/2024 10:21	0	2.23	1.48	99.9	1034.2	13	55.1	40.676998	-73.9981	14.8	269.7	13.134	Sample
11/4/2024 10:22	0	2.16	1	98.1	1034.2	13	55.3	40.676998	-73.9981	14.8	269.9	13.128	Sample
11/4/2024 10:23	0	3.13	1	102.9	1034.3	13	55.2	40.676998	-73.9981	14.9	269.8	13.119	Sample
11/4/2024 10:24	0	4.82	1.16	97.3	1034.3	13	54.9	40.676998	-73.9981	15	269.7	13.122	Sample
11/4/2024 10:25	0	8.73	0.84	98.3	1034.3	13	54.9	40.676998	-73.9981	15.2	269.7	13.116	Sample
11/4/2024 10:26	0	6.04	0.95	89	1034.4	13	54.9	40.676998	-73.9981	15.5	269.7	13.116	Sample
11/4/2024 10:27	0	4.27	1.05	101.4	1034.3	13	54.7	40.676998	-73.9981	15.3	269.6	13.119	Sample
11/4/2024 10:28	0	3.77	1.24	102.4	1034.2	13	54.7	40.676998	-73.9981	15.2	269.6	13.128	Sample
11/4/2024 10:29	0	4.67	1	100.8	1034.2	13	54.8	40.676998	-73.9981	15.2	269.6	13.125	Sample
11/4/2024 10:30	0	4.21	1.69	96.7	1034.3	13	55.2	40.676998	-73.9981	15.5	269.8	13.134	Sample
11/4/2024 10:31	0	4.81	0.82	92.2	1034.2	13	55.2	40.676998	-73.9981	15.6	269.8	13.119	Sample
11/4/2024 10:32	0	3.97	1.36	85.5	1034.2	13	55.2	40.676998	-73.9981	15.6	269.9	13.119	Sample
11/4/2024 10:33	0	2.89	1.14	98.1	1034.2	13	55.3	40.676998	-73.9981	15.6	269.7	13.113	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 10:34	0	2.8	1.11	108	1034.2	13	55.4	40.676998	-73.9981	15.7	269.8	13.122	Sample
11/4/2024 10:35	0	2.48	1.33	98.6	1034.2	13	55.6	40.676998	-73.9981	15.7	269.6	13.119	Sample
11/4/2024 10:36	0	2.74	1.48	100.2	1034.2	13	55.6	40.676998	-73.9981	15.6	269.6	13.122	Sample
11/4/2024 10:37	0	2.62	1.54	99.4	1034.2	13	55.8	40.676998	-73.9981	15.6	269.5	13.116	Sample
11/4/2024 10:38	0	2.31	1.29	96.2	1034.3	13.1	55.7	40.676998	-73.9981	15.8	269.7	13.119	Sample
11/4/2024 10:39	0	2.46	1.23	103.3	1034.3	13.1	55.7	40.676998	-73.9981	15.9	269.8	13.119	Sample
11/4/2024 10:40	0	2.59	1.33	93.6	1034.3	13.2	55.4	40.676998	-73.9981	15.9	269.7	13.116	Sample
11/4/2024 10:41	0	2.81	1.32	97.5	1034.2	13.2	55.3	40.676998	-73.9981	16.1	269.6	13.116	Sample
11/4/2024 10:42	0	2.23	1.05	98.3	1034.2	13.3	55.3	40.676998	-73.9981	16.2	269.7	13.113	Sample
11/4/2024 10:43	0	2.81	0.75	104.9	1034.3	13.3	55.3	40.676998	-73.9981	16.1	269.8	13.119	Sample
11/4/2024 10:44	0	3.67	0.9	109.3	1034.3	13.3	55.2	40.676998	-73.9981	16.1	269.7	13.119	Sample
11/4/2024 10:45	0	2.9	1.21	107.7	1034.3	13.3	55.2	40.676998	-73.9981	16	269.8	13.116	Sample
11/4/2024 10:46	0	3.2	1.11	103.9	1034.2	13.3	55.2	40.676998	-73.9981	16	269.6	13.116	Sample
11/4/2024 10:47	0	2.65	1.23	98.4	1034.3	13.3	55.4	40.676998	-73.9981	16.1	269.7	13.119	Sample
11/4/2024 10:48	0	2.23	1.08	96.4	1034.2	13.3	55.4	40.676998	-73.9981	15.9	269.8	13.116	Sample
11/4/2024 10:49	0	2.87	0.98	75.6	1034.2	13.2	55.4	40.676998	-73.9981	15.8	269.7	13.107	Sample
11/4/2024 10:50	0	3.71	1.08	103.9	1034.2	13.2	55.3	40.676998	-73.9981	15.7	269.8	13.113	Sample
11/4/2024 10:51	0	4.22	1.62	100.7	1034.1	13.2	55.5	40.676998	-73.9981	15.8	269.8	13.116	Sample
11/4/2024 10:52	0	4.18	1.52	93.5	1034.1	13.2	55.7	40.676998	-73.9981	15.8	269.8	13.113	Sample
11/4/2024 10:53	0	4.46	1.77	96.5	1034.1	13.2	55.8	40.676998	-73.9981	15.8	269.6	13.113	Sample
11/4/2024 10:54	0	6.92	1.21	95.1	1034.1	13.2	55.9	40.676998	-73.9981	15.9	269.8	13.113	Sample
11/4/2024 10:55	0	7.41	0.97	90.4	1034.1	13.1	55.8	40.676998	-73.9981	16	269.8	13.113	Sample
11/4/2024 10:56	0	4.29	0.86	98.1	1034.1	13.1	55.9	40.676998	-73.9981	16.3	269.6	13.113	Sample
11/4/2024 10:57	0	5.08	1.24	99.3	1034.1	13.1	56.1	40.676998	-73.9981	16.3	269.6	13.116	Sample
11/4/2024 10:58	0	4.47	1	100.1	1034.1	13.2	56	40.676998	-73.9981	16.2	269.7	13.113	Sample
11/4/2024 10:59	0.01	4.1	0.88	97	1034.1	13.2	56	40.676998	-73.9981	16.3	269.6	13.113	Sample
11/4/2024 11:00	0.01	9.61	1.01	99.6	1034.1	13.2	55.9	40.676998	-73.9981	16.3	269.7	13.122	Sample
11/4/2024 11:01	0	7.28	1.33	100.2	1034.1	13.2	55.9	40.676998	-73.9981	16.3	269.6	13.113	Sample
11/4/2024 11:02	0	24.27	1.32	100.2	1034.1	13.3	55.8	40.676998	-73.9981	16.3	269.8	13.116	Sample
11/4/2024 11:03	0	17.39	0.92	100.7	1034.1	13.3	55.7	40.676998	-73.9981	16.2	269.7	13.116	Sample
11/4/2024 11:04	0	6.61	1.28	108.1	1034	13.3	55.5	40.676998	-73.9981	16.2	269.8	13.113	Sample
11/4/2024 11:05	0	3.59	1.38	104.4	1034	13.3	55.5	40.676998	-73.9981	16.2	269.7	13.113	Sample
11/4/2024 11:06	0	2.74	1.25	97.7	1034	13.3	55.4	40.676998	-73.9981	16.2	269.6	13.113	Sample
11/4/2024 11:07	0	2.32	0.82	101.9	1033.9	13.3	55.6	40.676998	-73.9981	16.1	269.8	13.116	Sample
11/4/2024 11:08	0	2.44	0.6	99.7	1033.9	13.3	55.8	40.676998	-73.9981	16	269.8	13.116	Sample
11/4/2024 11:09	0	2.63	0.63	108.6	1033.9	13.4	55.7	40.676998	-73.9981	16	269.8	13.119	Sample
11/4/2024 11:10	0	2.68	0.65	113.2	1034	13.4	55.7	40.676998	-73.9981	16	269.4	13.116	Sample
11/4/2024 11:11	0	2.92	1.23	101.3	1034	13.4	55.4	40.676998	-73.9981	16	269.6	13.113	Sample
11/4/2024 11:12	0	7.41	1.08	95.8	1034	13.5	55.4	40.676998	-73.9981	16.1	269.5	13.113	Sample
11/4/2024 11:13	0	8.54	1.33	94.6	1034.1	13.5	55.2	40.676998	-73.9981	16.1	269.8	13.113	Sample
11/4/2024 11:14	0	3.05	1.43	101	1034.1	13.5	55.1	40.676998	-73.9981	16.2	269.9	13.116	Sample
11/4/2024 11:15	0	2.59	1.32	99.7	1034.1	13.5	55.2	40.676998	-73.9981	16.2	269.8	13.113	Sample
11/4/2024 11:16	0	2.8	1.57	96.1	1034.1	13.5	55.1	40.676998	-73.9981	16.2	269.9	13.113	Sample
11/4/2024 11:17	0	2.75	1.11	87.6	1034.1	13.5	55	40.676998	-73.9981	16.2	269.8	13.113	Sample
11/4/2024 11:18	0	3.36	1.15	100.2	1034.1	13.5	55.2	40.676998	-73.9981	16.2	269.6	13.116	Sample
11/4/2024 11:19	0	3.22	0.93	108.8	1034.1	13.5	55.2	40.676998	-73.9981	16.1	269.9	13.11	Sample
11/4/2024 11:20	0	2.67	0.83	98.5	1034.1	13.5	55	40.676998	-73.9981	15.9	269.8	13.11	Sample
11/4/2024 11:21	0	2.44	1.15	99.7	1034.1	13.5	55.1	40.676998	-73.9981	15.8	269.9	13.113	Sample
11/4/2024 11:22	0	1.99	1.7	98	1034.1	13.6	54.8	40.676998	-73.9981	15.8	269.9	13.11	Sample
11/4/2024 11:23	0	2.28	1.41	101.8	1034.1	13.5	54.7	40.676998	-73.9981	15.8	269.8	13.11	Sample
11/4/2024 11:24	0	2.48	1.35	99.6	1034.1	13.5	54.9	40.676998	-73.9981	15.7	269.8	13.113	Sample
11/4/2024 11:25	0	3.77	1.09	89	1034.1	13.5	55.2	40.676998	-73.9981	15.7	269.8	13.113	Sample
11/4/2024 11:26	0	2.95	1.48	98.8	1034.2	13.5	55.5	40.676998	-73.9981	15.7	270.1	13.113	Sample
11/4/2024 11:27	0	3.1	1.9	99.3	1034.2	13.5	55.4	40.676998	-73.9981	15.6	270.1	13.113	Sample
11/4/2024 11:28	0	4.06	1.78	99.3	1034.1	13.4	55.3	40.676998	-73.9981	15.4	269.8	13.113	Sample
11/4/2024 11:29	0	3.33	1.23	94.8	1034	13.4	55.6	40.676998	-73.9981	15.4	269.8	13.113	Sample
11/4/2024 11:30	0	3.87	1.48	97	1034	13.3	55.3	40.676998	-73.9981	15.3	270	13.113	Sample
11/4/2024 11:31	0	3.76	1.51	98.3	1033.9	13.3	55.2	40.676998	-73.9981	15.2	270	13.113	Sample
11/4/2024 11:32	0	3.76	1.73	99.9	1033.8	13.3	55.1	40.676998	-73.9981	15.2	269.9	13.113	Sample
11/4/2024 11:33	0	4.61	1.83	98.8	1033.7	13.3	55.4	40.676998	-73.9981	15.1	269.9	13.113	Sample
11/4/2024 11:34	0	4.06	1.66	102.3	1033.6	13.2	55.4	40.676998	-73.9981	15	269.8	13.113	Sample
11/4/2024 11:35	0	3.62	1.46	98.7	1033.6	13.2	55.7	40.676998	-73.9981	15	269.8	13.113	Sample
11/4/2024 11:36	0	5.31	1.47	100.8	1033.6	13.3	55.8	40.676998	-73.9981	15.1	269.8	13.113	Sample
11/4/2024 11:37	0	6.1	1.65	100	1033.6	13.3	55.7	40.676998	-73.9981	15.1	269.9	13.116	Sample
11/4/2024 11:38	0	4.12	1.7	97.8	1033.6	13.3	55.9	40.676998	-73.9981	15.1	270	13.113	Sample
11/4/2024 11:39	0	5.58	2.17	98.7	1033.5	13.3	55.6	40.676998	-73.9981	15.2	270	13.116	Sample
11/4/2024 11:40	0	3.91	1.84	99.6	1033.5	13.2	55.6	40.676998	-73.9981	15.5	270	13.113	Sample
11/4/2024 11:41	0	3.7	1.47	97.7	1033.5	13.2	55.5	40.676998	-73.9981	15.8	270.1	13.113	Sample
11/4/2024 11:42	0	3.54	1.53	95.9	1033.5	13.2	55.5	40.676998	-73.9981	16	269.8	13.113	Sample
11/4/2024 11:43	0	3.05	1.62	99.8	1033.5	13.1	55.5	40.676998	-73.9981	16.2	270	13.113	Sample
11/4/2024 11:44	0	3.85	1.12	102.7	1033.6	13.1	55.6	40.676998	-73.9981	16.5	269.9	13.113	Sample
11/4/2024 11:45	0	3.18	1.36	100.2	1033.6	13.1	55.7	40.676998	-73.9981	16.6	269.9	13.107	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 11:46	0	7.53	0.94	101.3	1033.6	13.1	55.9	40.676998	-73.9981	17	269.9	13.116	Sample
11/4/2024 11:47	0	8.02	0.96	101.5	1033.7	13.2	55.9	40.676998	-73.9981	17.3	269.9	13.113	Sample
11/4/2024 11:48	0	5.98	1.36	104.2	1033.7	13.2	55.9	40.676998	-73.9981	17.6	269.9	13.11	Sample
11/4/2024 11:49	0	4.48	1.86	101.6	1033.7	13.2	55.8	40.676998	-73.9981	18.1	269.7	13.113	Sample
11/4/2024 11:50	0	3.68	2.08	99.4	1033.8	13.2	56.1	40.676998	-73.9981	18.7	269.8	13.113	Sample
11/4/2024 11:51	0	3.56	1.64	101.3	1033.9	13.1	56.3	40.677101	-73.9981	18.9	270	13.113	Sample
11/4/2024 11:52	0	4.59	1.2	99.5	1033.9	13.2	56.5	40.677101	-73.9981	19.1	269.8	13.113	Sample
11/4/2024 11:53	0	4.93	1.58	103.5	1033.9	13.2	56.7	40.677101	-73.9981	19.3	270	13.11	Sample
11/4/2024 11:54	0	3.16	1.72	98	1033.9	13.2	56.6	40.677101	-73.9981	19.5	269.8	13.11	Sample
11/4/2024 11:55	0	4.46	1.35	89.2	1034	13.2	56.4	40.677101	-73.9981	19.6	269.9	13.107	Sample
11/4/2024 11:56	0	3.41	1.93	97.5	1034	13.3	56.5	40.677101	-73.9981	19.7	269.8	13.107	Sample
11/4/2024 11:57	0	3.24	1.61	104.4	1033.9	13.3	56.3	40.677101	-73.9981	20.1	269.6	13.107	Sample
11/4/2024 11:58	0	3.61	1.5	98.9	1033.9	13.3	56.1	40.677101	-73.9981	20.2	269.9	13.11	Sample
11/4/2024 11:59	0	4.07	1.67	102.5	1033.9	13.3	56	40.677101	-73.9981	20.3	270	13.093	Sample
11/4/2024 12:00	0	4.88	1.9	99.3	1033.9	13.3	56	40.677101	-73.9981	20.5	270.1	13.11	Sample
11/4/2024 12:01	0	4.99	1.84	103.8	1034	13.2	56.1	40.677101	-73.9981	21.1	269.9	13.107	Sample
11/4/2024 12:02	0	5.1	1.12	93.8	1034.2	13.3	55.7	40.677101	-73.998001	23	270	13.104	Sample
11/4/2024 12:03	0	5.65	1.48	103	1034.3	13.3	55.5	40.677101	-73.998001	23.7	269.8	13.104	Sample
11/4/2024 12:04	0	3.69	1.93	97.9	1034.3	13.3	55.4	40.677101	-73.998001	24	270	13.107	Sample
11/4/2024 12:05	0	3.47	1.68	100	1034.2	13.3	55.3	40.677101	-73.998001	24.4	270.1	13.102	Sample
11/4/2024 12:06	0	2.93	1.73	104.3	1034.3	13.3	55.4	40.677101	-73.998001	24.7	270	13.104	Sample
11/4/2024 12:07	0	2.87	2.2	97.7	1034.3	13.3	55.7	40.677101	-73.998001	24.9	270.1	13.104	Sample
11/4/2024 12:08	0	2.65	1.69	99.7	1034.3	13.3	55.5	40.677101	-73.998001	25.2	270.1	13.104	Sample
11/4/2024 12:09	0	2.56	2.11	99	1034.4	13.3	55.8	40.677101	-73.998001	25.2	269.7	13.107	Sample
11/4/2024 12:10	0	2.5	1.44	101.8	1034.5	13.3	55.6	40.677101	-73.998001	25.4	269.9	13.104	Sample
11/4/2024 12:11	0	2.71	1.52	100.4	1034.6	13.3	55.8	40.677101	-73.998001	25.6	269.9	13.102	Sample
11/4/2024 12:12	0	2.41	1.01	100.6	1034.6	13.3	55.9	40.677101	-73.998001	25.8	269.8	13.102	Sample
11/4/2024 12:13	0	2.59	0.9	100.4	1034.6	13.4	55.8	40.677101	-73.998001	25.9	270.1	13.107	Sample
11/4/2024 12:14	0	2.66	1.24	98.7	1034.6	13.5	55.8	40.677101	-73.998001	26.1	270	13.099	Sample
11/4/2024 12:15	0	2.85	1.38	99.9	1034.7	13.5	55.6	40.677101	-73.998001	26.1	269.8	13.104	Sample
11/4/2024 12:16	0	3.3	1.82	102.7	1034.7	13.6	55.5	40.677101	-73.998001	26.2	269.9	13.096	Sample
11/4/2024 12:17	0	2.81	1.62	98.7	1034.6	13.5	55.5	40.677101	-73.998001	26.3	269.9	13.104	Sample
11/4/2024 12:18	0	2.62	1.67	98	1034.6	13.5	55.7	40.677101	-73.998001	26.5	269.8	13.102	Sample
11/4/2024 12:19	0	2.97	1.61	96.8	1034.6	13.5	55.6	40.677101	-73.998001	26.7	270	13.096	Sample
11/4/2024 12:20	0	2.96	1.42	100.9	1034.7	13.5	55.7	40.677101	-73.998001	27.1	269.9	13.096	Sample
11/4/2024 12:21	0	2.94	1.18	93.1	1034.7	13.5	55.9	40.677101	-73.998001	27.2	269.9	13.104	Sample
11/4/2024 12:22	0	3.06	1.83	96.6	1034.7	13.6	55.8	40.677101	-73.998001	27.2	269.9	13.09	Sample
11/4/2024 12:23	0	2.77	2.06	97.9	1034.7	13.6	55.5	40.677101	-73.998001	27.1	270	13.09	Sample
11/4/2024 12:24	0	3.06	1.7	98.3	1034.6	13.5	55.4	40.677101	-73.998001	27.1	270	13.096	Sample
11/4/2024 12:25	0	3.03	1.43	104.2	1034.6	13.5	55.5	40.677101	-73.998001	27.1	270	13.093	Sample
11/4/2024 12:26	0	3.12	1.88	98.4	1034.6	13.5	55.7	40.677101	-73.998001	27.2	269.9	13.099	Sample
11/4/2024 12:27	0	3.05	1.69	99.9	1034.6	13.5	55.8	40.677101	-73.9981	27.3	269.9	13.087	Sample
11/4/2024 12:28	0	2.79	1.29	98.6	1034.6	13.5	55.8	40.677101	-73.9981	27.3	269.8	13.087	Sample
11/4/2024 12:29	0	2.36	1.32	97.8	1034.5	13.5	55.5	40.677101	-73.9981	27.4	269.9	13.093	Sample
11/4/2024 12:30	0	1.89	0.93	109.1	1034.5	13.5	55.4	40.677101	-73.9981	27.5	270	13.087	Sample
11/4/2024 12:31	0	1.78	1.07	105.4	1034.5	13.5	55.5	40.677101	-73.9981	27.5	269.9	13.084	Sample
11/4/2024 12:32	0	1.85	1.27	101.2	1034.6	13.5	55.6	40.677101	-73.9981	27.6	270	13.081	Sample
11/4/2024 12:33	0	2.06	1.08	101.2	1034.6	13.5	55.7	40.677101	-73.998001	27.7	270	13.081	Sample
11/4/2024 12:34	0	2.26	0.84	96.7	1034.6	13.5	55.4	40.677101	-73.998001	27.6	270	13.087	Sample
11/4/2024 12:35	0	2.38	1.19	92.9	1034.6	13.5	55.3	40.677101	-73.998001	27.6	270	13.084	Sample
11/4/2024 12:36	0	2.07	1.51	100.3	1034.5	13.5	55.2	40.677101	-73.998001	27.6	270	13.081	Sample
11/4/2024 12:37	0	1.81	1.42	102.7	1034.5	13.6	55.2	40.677101	-73.998001	27.7	269.9	13.081	Sample
11/4/2024 12:38	0	2.02	1.5	99.8	1034.5	13.6	55.2	40.677101	-73.998001	27.7	270.1	13.084	Sample
11/4/2024 12:39	0	1.84	1.55	98.4	1034.5	13.6	55.4	40.677101	-73.998001	27.8	270	13.084	Sample
11/4/2024 12:40	0	1.77	1.52	99	1034.5	13.6	55.4	40.677101	-73.998001	27.8	270.1	13.081	Sample
11/4/2024 12:41	0	1.88	1.41	97.4	1034.4	13.5	55.4	40.677101	-73.998001	27.8	270	13.081	Sample
11/4/2024 12:42	0	1.92	1.63	100	1034.3	13.5	55.4	40.677101	-73.998001	27.7	270	13.078	Sample
11/4/2024 12:43	0	1.77	1.23	97.6	1034.4	13.5	55.4	40.677101	-73.998001	27.7	270	13.078	Sample
11/4/2024 12:44	0	1.79	1.06	88.7	1034.4	13.5	55.4	40.677101	-73.998001	27.6	270.1	13.078	Sample
11/4/2024 12:45	0	1.88	1.07	92.1	1034.4	13.6	55.5	40.677101	-73.998001	27.6	269.8	13.078	Sample
11/4/2024 12:46	0	1.91	1.17	93.3	1034.3	13.6	55.5	40.677101	-73.998001	27.6	269.8	13.078	Sample
11/4/2024 12:47	0	2.6	1.21	93.5	1034.3	13.5	55.5	40.677101	-73.998001	27.6	270	13.081	Sample
11/4/2024 12:48	0	2.49	1.54	100.4	1034.4	13.6	55.8	40.677101	-73.998001	27.8	269.9	13.078	Sample
11/4/2024 12:49	0	1.94	1.57	97.2	1034.4	13.6	56	40.677101	-73.998001	27.7	269.9	13.078	Sample
11/4/2024 12:50	0	1.82	0.68	100.3	1034.3	13.6	55.6	40.677101	-73.998001	27.6	270	13.078	Sample
11/4/2024 12:51	0	1.82	0.86	109.6	1034.3	13.6	55.9	40.677101	-73.998001	27.6	270	13.072	Sample
11/4/2024 12:52	0	2.05	0.89	106.1	1034.3	13.6	55.9	40.677101	-73.998001	27.7	269.9	13.078	Sample
11/4/2024 12:53	0	2.11	1.33	97.5	1034.2	13.7	55.6	40.677101	-73.998001	27.7	269.7	13.081	Sample
11/4/2024 12:54	0	1.88	1.37	98.9	1034.2	13.6	55.3	40.677101	-73.998001	27.6	269.9	13.078	Sample
11/4/2024 12:55	0	1.9	1.12	105	1034.2	13.6	55.3	40.677101	-73.998001	27.5	269.9	13.081	Sample
11/4/2024 12:56	0	1.82	0.87	97.7	1034.1	13.6	55.5	40.677101	-73.998001	27.5	270	13.078	Sample
11/4/2024 12:57	0	1.82	1.05	95	1034.1	13.6	55.5	40.677101	-73.998001	27.4	270	13.078	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 12:58	0	1.9	0.91	97.7	1034.1	13.6	55.5	40.677101	-73.998001	27.3	270.1	13.075	Sample
11/4/2024 12:59	0	2.05	1.08	100.2	1034.1	13.7	55	40.677101	-73.998001	27.3	269.9	13.078	Sample
11/4/2024 13:00	0	2.03	1.22	96.7	1034.1	13.7	54.8	40.677101	-73.998001	27.2	270	13.078	Sample
11/4/2024 13:01	0	2.12	0.66	105.7	1034.1	13.7	54.6	40.677101	-73.998001	27.3	270	13.078	Sample
11/4/2024 13:02	0	1.87	1.1	102.4	1034.1	13.7	54.5	40.677101	-73.998001	27.3	269.9	13.078	Sample
11/4/2024 13:03	0	1.91	0.93	105.4	1034	13.7	54.9	40.677101	-73.998001	27.2	269.9	13.081	Sample
11/4/2024 13:04	0	2.02	0.46	92	1034	13.6	55.2	40.677101	-73.998001	27.2	270.1	13.075	Sample
11/4/2024 13:05	0	1.85	0.84	93.9	1034	13.7	55.4	40.677101	-73.998001	27.1	270	13.069	Sample
11/4/2024 13:06	0	1.91	1.35	100.9	1033.9	13.7	55.4	40.677101	-73.998001	27	270	13.075	Sample
11/4/2024 13:07	0	2.76	1.43	99.7	1033.8	13.7	55.8	40.677101	-73.998001	27	270	13.075	Sample
11/4/2024 13:08	0	3.5	1.11	96.7	1033.9	13.7	55.8	40.677101	-73.998001	27.2	269.9	13.075	Sample
11/4/2024 13:09	0	2.66	1.15	91.8	1037.9	13.7	55.5	40.677101	-73.998001	59.6	269.9	13.078	Sample
11/4/2024 13:10	0	2.7	0.82	93	1036.3	13.7	55.3	40.677101	-73.998001	46.7	269.8	13.072	Sample
11/4/2024 13:11	0	2.49	1.01	104	1037.1	13.8	55.4	40.677101	-73.998001	53.2	270	13.075	Sample
11/4/2024 13:12	0	2.34	0.94	105.7	1037.2	13.8	55.5	40.677101	-73.9981	54	269.9	13.078	Sample
11/4/2024 13:13	0	2.23	0.53	87.3	1033.5	13.8	55.4	40.677101	-73.9981	24	270	13.075	Sample
11/4/2024 13:14	0	2.03	0.81	106.6	1033.4	13.8	55.4	40.677101	-73.9981	24.1	270	13.075	Sample
11/4/2024 13:15	0	2.02	0.99	92.3	1033.3	13.8	55.5	40.677101	-73.9981	23	270	13.075	Sample
11/4/2024 13:16	0	2.44	1.42	106.9	1033.2	13.8	55.7	40.676998	-73.998199	22.8	269.9	13.075	Sample
11/4/2024 13:17	0	2.28	1.58	102.3	1033.2	13.8	55.7	40.676998	-73.998199	22.3	270	13.075	Sample
11/4/2024 13:18	0	2.2	0.96	100.6	1033.1	13.8	55.8	40.676998	-73.998199	22	270	13.078	Sample
11/4/2024 13:19	0	2.19	0.77	92.5	1033.1	13.8	56	40.676899	-73.998199	21.8	270	13.081	Sample
11/4/2024 13:20	0	2.03	0.57	92	1033.1	13.8	56.3	40.676899	-73.998199	22.2	269.9	13.075	Sample
11/4/2024 13:21	0	2.35	0.89	100.5	1033	13.8	56.2	40.676899	-73.998199	21.8	270	13.075	Sample
11/4/2024 13:22	0	2.35	1.12	102.6	1033	13.8	56.4	40.676899	-73.998199	21.5	270	13.078	Sample
11/4/2024 13:23	0	2.21	1.07	100.3	1032.8	13.8	56.2	40.676899	-73.998199	20.6	270	13.075	Sample
11/4/2024 13:24	0	2.11	1.3	100.8	1032.6	13.8	56.3	40.676899	-73.998199	19.5	269.8	13.069	Sample
11/4/2024 13:25	0	2.71	1.03	101.3	1032.5	13.8	56.6	40.676899	-73.998199	18.7	269.8	13.072	Sample
11/4/2024 13:26	0	2.6	0.98	104.3	1032.6	13.8	56.8	40.676899	-73.998199	18.6	269.8	13.072	Sample
11/4/2024 13:27	0	4.51	0.38	116.2	1032.6	13.8	56.8	40.676998	-73.9981	19	269.8	13.069	Sample
11/4/2024 13:28	0	4.36	0.58	94.4	1032.7	13.9	56.8	40.677101	-73.9981	20.1	269.8	13.069	Sample
11/4/2024 13:29	0	3.57	1.28	94.1	1032.7	13.9	57	40.677101	-73.9981	20.3	269.7	13.066	Sample
11/4/2024 13:30													Zero
11/4/2024 13:31													Zero
11/4/2024 13:32													Zero
11/4/2024 13:33													Zero
11/4/2024 13:34	0	4.63	1.13	86.5	1032.6	13.9	56.9	40.677101	-73.9981	19.3	270.3	13.061	Sample
11/4/2024 13:35	0	3.11	1.28	99.6	1032.6	13.9	57.1	40.676998	-73.9981	19.1	270.2	13.049	Sample
11/4/2024 13:36	0	2.8	0.61	103.9	1032.5	13.9	57.1	40.676998	-73.9981	18.7	270.3	13.049	Sample
11/4/2024 13:37	0	4.2	1.27	85.1	1032.5	13.9	57.1	40.676998	-73.9981	18.2	270.2	13.049	Sample
11/4/2024 13:38	0	3.42	1.17	102.5	1032.4	13.9	57.2	40.676998	-73.9981	17.9	270.4	13.043	Sample
11/4/2024 13:39	0	2.72	0.8	106.2	1032.4	13.9	57.4	40.676998	-73.9981	17.6	270.3	13.049	Sample
11/4/2024 13:40	0	2.04	0.52	101	1032.4	13.9	57.4	40.676998	-73.9981	17.6	270.3	13.046	Sample
11/4/2024 13:41	0	1.46	0.72	97.1	1032.4	13.9	57.3	40.676998	-73.9981	17.5	270.2	13.043	Sample
11/4/2024 13:42	0	1.79	0.85	103.7	1032.4	13.9	57.4	40.676998	-73.9981	17.4	270.3	13.043	Sample
11/4/2024 13:43	0	1.52	1.27	101	1032.3	13.9	57.6	40.676998	-73.9981	17.2	270.3	13.046	Sample
11/4/2024 13:44	0	4.42	1.16	98.1	1032.2	13.9	57.8	40.676998	-73.9981	16.9	271.2	13.046	Sample
11/4/2024 13:45	0	4.83	1.27	102.1	1032.2	13.9	57.9	40.676998	-73.9981	16.9	271.4	13.043	Sample
11/4/2024 13:46	0	2.65	1.71	100.6	1032.2	13.9	58.1	40.676998	-73.9981	16.7	271.3	13.043	Sample
11/4/2024 13:47	0	4	1.3	99.8	1032.2	13.9	58	40.676998	-73.9981	16.7	271.3	13.043	Sample
11/4/2024 13:48	0	2.2	0.62	104.6	1032.1	13.9	58.2	40.676998	-73.9981	16.6	271.4	13.043	Sample
11/4/2024 13:49	0	3.64	0.86	110.7	1032	13.9	58.1	40.676998	-73.9981	16.2	271.4	13.043	Sample
11/4/2024 13:50	0	2.82	1.02	96.9	1032	13.9	58.2	40.676998	-73.9981	15.8	271.2	13.046	Sample
11/4/2024 13:51	0	2.76	1.36	96.3	1031.8	13.9	58.3	40.676998	-73.9981	15.5	270.8	13.046	Sample
11/4/2024 13:52	0	3.16	1.73	99.4	1031.8	13.9	58.4	40.676998	-73.9981	15.5	270.1	13.046	Sample
11/4/2024 13:53	0	1.74	1.58	96.3	1031.8	13.9	58.3	40.676998	-73.9981	15.5	270.4	13.04	Sample
11/4/2024 13:54	0	1.92	1.51	105.5	1031.7	13.9	58.4	40.676998	-73.9981	15.4	270.4	13.046	Sample
11/4/2024 13:55	0	2.28	0.98	101.4	1031.7	13.9	58.4	40.676998	-73.9981	15.3	270.4	13.04	Sample
11/4/2024 13:56	0	2.07	0.73	99.9	1031.7	13.9	58.5	40.676998	-73.9981	15.3	270.3	13.043	Sample
11/4/2024 13:57	0	2.69	0.66	99.2	1031.7	13.9	58.5	40.676998	-73.9981	15.4	270.3	13.043	Sample
11/4/2024 13:58	0	2.23	0.77	104.2	1031.7	13.9	58.6	40.676998	-73.9981	15.3	270.4	13.043	Sample
11/4/2024 13:59	0	1.87	0.59	112.4	1031.6	13.9	58.7	40.676998	-73.9981	15.3	270.4	13.04	Sample
11/4/2024 14:00	0	2.04	0.88	99.6	1031.6	13.9	58.9	40.676998	-73.9981	15.1	270.5	13.04	Sample
11/4/2024 14:01	0	2.29	1.16	96.9	1031.6	14	58.7	40.676998	-73.9981	14.8	270.4	13.043	Sample
11/4/2024 14:02	0	2.43	1.35	100.9	1031.5	14	58.8	40.676998	-73.9981	14.6	270.4	13.043	Sample
11/4/2024 14:03	0	2.45	1.13	101.1	1031.5	14	58.8	40.676998	-73.9981	14.3	270.3	13.037	Sample
11/4/2024 14:04	0	4.91	0.65	96.1	1031.4	14	58.7	40.676998	-73.9981	14.1	270.3	13.037	Sample
11/4/2024 14:05	0	4.13	1.21	99.6	1031.4	14	58.7	40.676998	-73.9981	14.2	270.3	13.04	Sample
11/4/2024 14:06	0	1.9	0.87	100.3	1031.4	14	58.7	40.676998	-73.9981	14.2	270.3	13.037	Sample
11/4/2024 14:07	0	1.45	1.14	101.6	1031.4	14	59.1	40.676998	-73.9981	14.2	270.4	13.037	Sample
11/4/2024 14:08	0	1.53	0.96	104	1031.4	14	59.4	40.676998	-73.9981	14.3	270.3	13.037	Sample
11/4/2024 14:09	0	2.47	0.81	115	1031.5	14	59.4	40.676998	-73.9981	14.4	270.4	13.023	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 14:10	0	2.53	0.62	107.7	1031.4	14	59.5	40.676998	-73.9981	14.3	270.3	13.023	Sample
11/4/2024 14:11	0	1.71	0.89	86.2	1031.4	14	59.6	40.676998	-73.9981	14.1	270.5	13.034	Sample
11/4/2024 14:12	0	2.02	0.98	97.1	1031.3	14	59.6	40.676998	-73.9981	13.9	270.4	13.031	Sample
11/4/2024 14:13	0	2.36	0.94	99.7	1031.3	14	59.5	40.676998	-73.9981	13.6	270.2	13.019	Sample
11/4/2024 14:14	0	3.45	1	100.4	1031.3	14	59.6	40.676998	-73.9981	13.5	270.3	13.025	Sample
11/4/2024 14:15	0	6.58	0.52	100.6	1031.2	14	59.7	40.676998	-73.9981	13.4	270.3	13.028	Sample
11/4/2024 14:16	0	4.51	1.27	100.1	1031.2	14.1	59.9	40.676998	-73.9981	13.2	270.3	13.017	Sample
11/4/2024 14:17	0	3.39	1.65	99.6	1031.2	14.1	59.6	40.676998	-73.9981	13.2	270.4	13.014	Sample
11/4/2024 14:18	0	3.15	0.93	100.8	1031.2	14.1	59.4	40.676998	-73.9981	13.3	270.4	13.017	Sample
11/4/2024 14:19	0	3.1	1.11	99.9	1031.1	14.1	59.6	40.676998	-73.9981	13.2	270.3	13.011	Sample
11/4/2024 14:20	0	2.74	0.82	93	1031.1	14.1	59.8	40.676998	-73.9981	13.2	270.1	13.011	Sample
11/4/2024 14:21	0	3.15	1.06	100.4	1031.1	14.1	60.1	40.676998	-73.9981	13.1	270.4	13.011	Sample
11/4/2024 14:22	0	1.92	0.93	106.1	1031.1	14	60	40.676998	-73.9981	13.1	270.2	13.008	Sample
11/4/2024 14:23	0	1.71	1.22	97.8	1031.1	14.1	60.2	40.676998	-73.9981	13.2	270.1	13.008	Sample
11/4/2024 14:24	0	1.98	1.03	96.1	1031.1	14.1	60	40.676998	-73.9981	13.1	270.3	13.011	Sample
11/4/2024 14:25	0	2.38	0.99	99.9	1031	14	60.2	40.676998	-73.9981	13	270.2	13.008	Sample
11/4/2024 14:26	0	2.6	1.55	101	1031	14	60.3	40.676998	-73.9981	12.9	270.3	13.014	Sample
11/4/2024 14:27	0	2.4	1.08	104.7	1031	14	60.2	40.676998	-73.9981	12.6	270.3	13.008	Sample
11/4/2024 14:28	0	1.72	0.81	98.3	1031	14	60.4	40.676998	-73.9981	12.5	270.2	13.008	Sample
11/4/2024 14:29	0	1.74	0.75	108	1030.9	14	60.3	40.676998	-73.9981	12.3	270.3	13.008	Sample
11/4/2024 14:30	0	1.72	1.09	101.1	1030.9	14	60.5	40.677101	-73.9981	12.1	270.3	13.008	Sample
11/4/2024 14:31	0	3.14	0.6	97.8	1030.9	14	60.6	40.677101	-73.9981	12	270.2	13.008	Sample
11/4/2024 14:32	0	3.67	0.77	101.3	1030.8	14	60.8	40.677101	-73.9981	12	270.2	13.008	Sample
11/4/2024 14:33	0	2.79	1.5	91.9	1030.8	14.1	60.8	40.677101	-73.9981	12	270.3	13.008	Sample
11/4/2024 14:34	0	6.07	1.48	98.3	1030.8	14.1	60.8	40.677101	-73.9981	12.2	269.9	13.005	Sample
11/4/2024 14:35	0	4.13	1.07	93.9	1030.8	14	60.8	40.677101	-73.9981	12.3	270.2	13.005	Sample
11/4/2024 14:36	0	4.39	0.95	92.6	1030.8	14	60.8	40.677101	-73.9981	12.3	270.3	13.005	Sample
11/4/2024 14:37	0	7.65	1.22	95.3	1030.8	14	60.8	40.677101	-73.9981	12.3	270.2	13.008	Sample
11/4/2024 14:38	0	2.86	0.87	109.7	1030.7	14	60.8	40.677101	-73.9981	12.2	270.1	12.999	Sample
11/4/2024 14:39	0	7.56	1.96	94.6	1030.7	14	60.9	40.677101	-73.9981	12.1	270.1	13.005	Sample
11/4/2024 14:40	0	3.83	1.8	98.5	1030.7	14	61.1	40.677101	-73.9981	12.2	270.1	12.993	Sample
11/4/2024 14:41	0	2.76	1.49	97	1030.7	14	61.2	40.677101	-73.9981	12.1	270.2	12.99	Sample
11/4/2024 14:42	0	2.43	0.98	94.2	1030.6	14	61.1	40.677101	-73.9981	12	270.1	12.981	Sample
11/4/2024 14:43	0	3.45	1.15	90.3	1030.7	14	61.2	40.677101	-73.9981	12	270.3	12.999	Sample
11/4/2024 14:44	0	2.59	1.23	103.2	1030.7	14	61.3	40.677101	-73.9981	11.9	270.1	12.984	Sample
11/4/2024 14:45	0	2.46	0.97	98.3	1030.6	14	61.5	40.677101	-73.9981	12	270.1	12.99	Sample
11/4/2024 14:46	0	3.71	0.94	103.4	1030.6	14	61.5	40.677101	-73.9981	12	270.1	12.996	Sample
11/4/2024 14:47	0	3.68	1.07	106.2	1030.6	14	61.5	40.677101	-73.9981	12	270.1	12.987	Sample
11/4/2024 14:48	0	3.42	1.17	102.5	1030.6	13.9	61.5	40.677101	-73.9981	12	270	12.976	Sample
11/4/2024 14:49	0	3.83	1.22	102.7	1030.6	14	61.6	40.677101	-73.9981	11.7	270.1	12.981	Sample
11/4/2024 14:50	0	2.19	1.02	103.7	1030.6	14	61.6	40.677101	-73.9981	11.7	270.1	12.976	Sample
11/4/2024 14:51	0	2.18	1.32	102.9	1030.6	14	61.5	40.677101	-73.9981	11.8	270.1	12.979	Sample
11/4/2024 14:52	0	2.49	1.43	100.1	1030.6	14	61.5	40.677101	-73.9981	12.1	270.1	12.973	Sample
11/4/2024 14:53	0	7.44	0.96	89.4	1030.6	14	61.4	40.677101	-73.9981	12.2	270.2	12.973	Sample
11/4/2024 14:54	0	16.63	0.69	99.2	1030.6	13.9	61.8	40.677101	-73.9981	12.2	270.2	12.976	Sample
11/4/2024 14:55	0	6.99	1.08	92.3	1030.6	13.9	61.8	40.6772	-73.9981	11.9	270.2	12.973	Sample
11/4/2024 14:56	0	1.7	1.1	89.5	1030.6	13.9	62.1	40.6772	-73.998001	12	270.1	12.979	Sample
11/4/2024 14:57	0	5.16	1.17	89.3	1030.6	13.9	62	40.6772	-73.998001	11.9	270.2	12.97	Sample
11/4/2024 14:58	0	3.87	1.59	91.2	1030.5	13.9	62.2	40.6772	-73.998001	11.9	270.1	12.973	Sample
11/4/2024 14:59	0	3.72	0.9	92.4	1030.5	13.8	62.1	40.6772	-73.998001	11.9	270.1	12.973	Sample
11/4/2024 15:00	0	2.05	1.02	93.4	1030.5	13.8	62.3	40.6772	-73.998001	11.8	270.1	12.97	Sample
11/4/2024 15:01	0	1.88	0.94	94	1030.5	13.8	62.5	40.6772	-73.998001	11.7	270.1	12.973	Sample
11/4/2024 15:02	0	2.12	0.77	73.2	1030.5	13.8	62.5	40.6772	-73.998001	11.7	270.2	12.973	Sample
11/4/2024 15:03	0	3.34	0.45	93.9	1030.5	13.8	62.4	40.677101	-73.998001	11.6	270.2	12.97	Sample
11/4/2024 15:04	0	2.77	1.13	92.6	1030.5	13.9	62.7	40.677101	-73.998001	11.8	270.2	12.973	Sample
11/4/2024 15:05	0	3.33	0.92	93.4	1030.5	13.9	62.6	40.677101	-73.9981	11.8	270.1	12.973	Sample
11/4/2024 15:06	0	6.17	0.82	86.4	1030.4	13.9	62.7	40.677101	-73.9981	12	270.2	12.973	Sample
11/4/2024 15:07	0	6.75	1.12	96.2	1030.4	13.9	62.8	40.677101	-73.9981	12.1	270.3	12.973	Sample
11/4/2024 15:08	0	2.52	1.12	93	1030.4	13.9	62.9	40.677101	-73.9981	12.1	270.2	12.97	Sample
11/4/2024 15:09	0	2.32	0.64	92.5	1030.4	14	63	40.677101	-73.9981	12.2	270.3	12.973	Sample
11/4/2024 15:10	0	2.02	0.77	95.8	1030.5	14	63	40.677101	-73.9981	12.2	270.3	12.973	Sample
11/4/2024 15:11	0	1.72	0.79	91.7	1030.5	14	62.8	40.677101	-73.9981	12.2	270.4	12.958	Sample
11/4/2024 15:12	0	4.69	1.13	92.8	1030.6	14	62.8	40.677101	-73.9981	12.3	270.3	12.967	Sample
11/4/2024 15:13	0	4.05	0.98	94.3	1030.6	14	62.9	40.677101	-73.9981	12.3	270.3	12.973	Sample
11/4/2024 15:14	0	2.38	0.9	76.3	1030.6	14	63	40.677101	-73.9981	12.5	270.2	12.97	Sample
11/4/2024 15:15	0	1.8	0.59	93.1	1030.6	14	63	40.677101	-73.9981	12.6	270.3	12.973	Sample
11/4/2024 15:16	0	1.84	0.97	86.9	1030.5	14	62.9	40.677101	-73.9981	12.8	270.3	12.967	Sample
11/4/2024 15:17	0	1.69	0.7	82.2	1030.5	14	62.8	40.677101	-73.9981	13	270.3	12.964	Sample
11/4/2024 15:18	0	1.92	0.81	84.7	1030.6	14	62.6	40.677101	-73.9981	13.2	270.4	12.964	Sample
11/4/2024 15:19	0	2.08	1.02	93.3	1030.6	14	62.6	40.677101	-73.9981	13.3	270.2	12.97	Sample
11/4/2024 15:20	0	1.83	1.33	92.9	1030.6	14	62.5	40.677101	-73.9981	13.3	270.2	12.967	Sample
11/4/2024 15:21	0	1.76	1.1	78.3	1030.6	14	62.8	40.677101	-73.9981	13.4	270.3	12.97	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 15:22	0	3.82	0.77	89.1	1030.5	14	62.9	40.677101	-73.9981	13.5	270.3	12.958	Sample
11/4/2024 15:23	0	4.14	0.58	84.4	1030.6	14	63.1	40.677101	-73.9981	13.5	270	12.961	Sample
11/4/2024 15:24	0	2.95	0.89	100.3	1030.5	14	63	40.677101	-73.9981	13.7	270.1	12.949	Sample
11/4/2024 15:25	0	2.75	0.96	94.1	1030.5	14	63	40.677101	-73.9981	13.7	270	12.952	Sample
11/4/2024 15:26	0	1.88	1.47	93.3	1030.5	14.1	63.1	40.677101	-73.9981	13.7	270.1	12.952	Sample
11/4/2024 15:27	0	1.56	1.63	92.1	1030.5	14.1	63.2	40.677101	-73.9981	13.8	270.2	12.946	Sample
11/4/2024 15:28	0	5.01	0.99	93.8	1030.5	14	63.2	40.677101	-73.9981	13.9	270.2	12.946	Sample
11/4/2024 15:29	0	6.27	1.11	93.1	1030.6	14	63.4	40.677101	-73.9981	14	270.1	12.946	Sample
11/4/2024 15:30	0	4.11	0.88	84.5	1030.5	14	63.5	40.677101	-73.9981	14	270.2	12.94	Sample
11/4/2024 15:31	0	3.27	0.86	97	1030.4	14	63.4	40.677101	-73.9981	13.9	270.2	12.949	Sample
11/4/2024 15:32	0	2.3	0.77	96.4	1030.4	14	63.2	40.677101	-73.9981	13.7	270	12.94	Sample
11/4/2024 15:33	0	1.9	0.76	91.4	1030.4	14	63.4	40.677101	-73.9981	13.7	270.1	12.946	Sample
11/4/2024 15:34	0	1.9	0.6	91.3	1030.4	14.1	63.6	40.677101	-73.9981	13.8	270.2	12.938	Sample
11/4/2024 15:35	0	1.78	1.08	94.1	1030.4	14.1	63.4	40.677101	-73.9981	13.7	270.2	12.943	Sample
11/4/2024 15:36	0	2.72	1.01	95	1030.4	14.1	63.6	40.677101	-73.9981	13.7	270.2	12.938	Sample
11/4/2024 15:37	0	3.52	1.03	88.4	1030.3	14.1	63.3	40.677101	-73.9981	13.7	270.3	12.938	Sample
11/4/2024 15:38	0	2.37	1.08	91.7	1030.3	14.1	63.2	40.677101	-73.9981	13.7	270.2	12.938	Sample
11/4/2024 15:39	0	2.32	1.04	94.6	1030.2	14.1	63.4	40.677101	-73.9981	13.7	270.1	12.938	Sample
11/4/2024 15:40	0	1.93	0.89	91.4	1030.2	14.1	63.6	40.677101	-73.9981	13.8	270.3	12.943	Sample
11/4/2024 15:41	0	2.41	1.06	93.9	1030.2	14.1	63.8	40.677101	-73.9981	13.9	270.4	12.94	Sample
11/4/2024 15:42	0	2.54	1.57	93.9	1030.2	14.1	63.8	40.677101	-73.9981	14.1	270.4	12.938	Sample
11/4/2024 15:43	0	2.29	1.03	92	1030.2	14	64.1	40.677101	-73.9981	14	270.4	12.935	Sample
11/4/2024 15:44	0	1.97	0.77	78.5	1030.2	14	64.2	40.677101	-73.9981	14.1	270.4	12.929	Sample
11/4/2024 15:45	0	1.93	1.08	89.1	1030.1	14	64.1	40.677101	-73.9981	14.2	270.6	12.938	Sample
11/4/2024 15:46	0	2.25	0.85	85.1	1030.1	14	64.3	40.677101	-73.9981	14.2	270.5	12.938	Sample
11/4/2024 15:47	0	2.24	1.01	82.6	1030.1	14	64	40.677101	-73.9981	14.1	270.4	12.938	Sample
11/4/2024 15:48	0	1.74	0.63	91.3	1030.1	13.9	64.2	40.677101	-73.9981	14.3	270.5	12.943	Sample
11/4/2024 15:49	0	3.88	0.88	89.7	1030.2	13.9	64.3	40.677101	-73.9981	14.4	270.5	12.938	Sample
11/4/2024 15:50	0	40.18	0.82	105	1030.2	13.9	64.1	40.677101	-73.9981	14.4	270.4	12.938	Sample
11/4/2024 15:51	0	12.48	0.77	88.5	1030.2	13.9	64.3	40.677101	-73.9981	14.4	270.5	12.938	Sample
11/4/2024 15:52	0	4.97	0.7	88.5	1030.2	13.9	64.3	40.677101	-73.9981	14.4	270.5	12.94	Sample
11/4/2024 15:53	0	1.99	0.54	86.6	1030.1	13.9	64.3	40.677101	-73.9981	14.5	270.4	12.938	Sample
11/4/2024 15:54	0	3.19	1.3	86.6	1030.1	13.9	64.3	40.677101	-73.9981	14.4	270.2	12.938	Sample
11/4/2024 15:55	0	4.04	0.78	91.7	1030.1	13.9	64.3	40.677101	-73.9981	14.4	269.9	12.938	Sample
11/4/2024 15:56	0	2.67	1.12	93.8	1030.1	13.9	64.3	40.677101	-73.9981	14.4	269.9	12.938	Sample
11/4/2024 15:57	0	2.04	0.64	93.5	1030	13.9	64.5	40.677101	-73.9981	14.4	269.9	12.938	Sample
11/4/2024 15:58	0	1.93	0.88	98.1	1030	13.9	64.7	40.677101	-73.9981	14.5	269.8	12.938	Sample
11/4/2024 15:59	0	1.96	0.6	84.8	1030.1	13.9	64.7	40.677101	-73.9981	14.4	269.9	12.935	Sample
11/4/2024 16:00	0	1.91	1.19	95.6	1030.1	13.9	64.6	40.677101	-73.9981	14.2	269.7	12.932	Sample
11/4/2024 16:01	0	1.94	0.88	89.5	1030.1	13.9	64.8	40.677101	-73.9981	14.2	269.8	12.938	Sample
11/4/2024 16:02	0	1.85	1.23	98.6	1030.1	13.8	64.7	40.677101	-73.9981	14.1	269.9	12.94	Sample
11/4/2024 16:03	0	2.08	0.91	89	1030.1	13.8	64.8	40.677101	-73.9981	14.1	269.9	12.938	Sample
11/4/2024 16:04	0	2.21	0.87	94.8	1030.1	13.8	64.9	40.677101	-73.9981	14.1	269.9	12.938	Sample
11/4/2024 16:05	0	2.01	0.85	93.2	1030.1	13.8	64.9	40.677101	-73.9981	14.1	269.8	12.933	Sample

WSP · Luquer Street Brooklyn · 2318 (AQS1 19052023-2318)
Instrument Data export
11/4/2024 to 11/4/2024
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 ($\mu g/m^3$)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°	Longitude	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 9:31	0	7.56										13.236	Sample
11/4/2024 9:32	0	7.11										13.113	Sample
11/4/2024 9:33	0	8.23										13.087	Sample
11/4/2024 9:34													Zero
11/4/2024 9:35													Zero
11/4/2024 9:36													Zero
11/4/2024 9:37	0	9.89										13.043	Sample
11/4/2024 9:38	0	5.18										13.04	Sample
11/4/2024 9:39	0	6.9										13.04	Sample
11/4/2024 9:40	0	4.66										13.04	Sample
11/4/2024 9:41	0	4.74										13.04	Sample
11/4/2024 9:42	0	5.6										13.04	Sample
11/4/2024 9:43	0	6.95										13.043	Sample
11/4/2024 9:44	0	5.78										13.04	Sample
11/4/2024 9:45	0	6.26										13.043	Sample
11/4/2024 9:46	0	7.43										13.04	Sample
11/4/2024 9:47	0	6.64										13.028	Sample
11/4/2024 9:48	0	17.04										13.04	Sample
11/4/2024 9:49	0	14.86										13.031	Sample
11/4/2024 9:50	0.01	11.91										13.037	Sample
11/4/2024 9:51	0.01	9.06										13.04	Sample
11/4/2024 9:52	0.01	13.24										13.04	Sample
11/4/2024 9:53	0.01	10.38										13.037	Sample
11/4/2024 9:54	0.01	15.65										13.04	Sample
11/4/2024 9:55	0.02	17.02										13.037	Sample
11/4/2024 9:56	0.01	43.18										13.034	Sample
11/4/2024 9:57	0.04	116.68										13.028	Sample
11/4/2024 9:58	0.07	23.95										13.034	Sample
11/4/2024 9:59	0.06	17.49										13.04	Sample
11/4/2024 10:00	0.05	9.47										13.034	Sample
11/4/2024 10:01	0.03	6.41										13.034	Sample
11/4/2024 10:02	0	9.61										13.031	Sample
11/4/2024 10:03	0	11.94										13.037	Sample
11/4/2024 10:04	0.01	21.25										13.04	Sample
11/4/2024 10:05	0.01	13.65										13.034	Sample
11/4/2024 10:06	0.02	25.59										13.025	Sample
11/4/2024 10:07	0.03	16.04										13.031	Sample
11/4/2024 10:08	0.04	14.47										13.031	Sample
11/4/2024 10:09	0.06	13.68										13.025	Sample
11/4/2024 10:10	0.05	10.56										13.025	Sample
11/4/2024 10:11	0.01	8.85										13.037	Sample
11/4/2024 10:12	0.01	10.28										13.023	Sample
11/4/2024 10:13	0.01	16.66										13.023	Sample
11/4/2024 10:14	0.05	12.23										13.019	Sample
11/4/2024 10:15	0.06	9.26										13.023	Sample
11/4/2024 10:16	0.05	18.44										13.023	Sample
11/4/2024 10:17	0.06	16.23										13.025	Sample
11/4/2024 10:18	0.08	22.19										13.019	Sample
11/4/2024 10:19	0.08	28.79										13.023	Sample
11/4/2024 10:20	0.06	15.78										13.017	Sample
11/4/2024 10:21	0.05	17.29										13.028	Sample
11/4/2024 10:22	0.03	21.65										13.008	Sample
11/4/2024 10:23	0.01	17.57										13.019	Sample
11/4/2024 10:24	0.01	20.33										13.028	Sample
11/4/2024 10:25	0.02	14.12										13.025	Sample
11/4/2024 10:26	0	9.5										13.008	Sample
11/4/2024 10:27	0	6.96										13.025	Sample
11/4/2024 10:28	0	8.8										13.011	Sample
11/4/2024 10:29	0	5.02										13.019	Sample
11/4/2024 10:30	0	8.26										13.019	Sample
11/4/2024 10:31	0.01	7.94										13.019	Sample
11/4/2024 10:32	0	4.69										13.011	Sample
11/4/2024 10:33	0	9.25										13.019	Sample

Time	VOC (ppm)	PM10 ($\mu g/m^3$)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 10:34	0	9.06										13.011	Sample
11/4/2024 10:35	0	8.07										13.011	Sample
11/4/2024 10:36	0.03	16.8										13.017	Sample
11/4/2024 10:37	0.03	18.42										13.014	Sample
11/4/2024 10:38	0.05	15.33										13.019	Sample
11/4/2024 10:39	0.04	12.96										13.023	Sample
11/4/2024 10:40	0.03	17.47										13.014	Sample
11/4/2024 10:41	0.04	26.45										13.019	Sample
11/4/2024 10:42	0.03	7.33										13.011	Sample
11/4/2024 10:43	0.02	8.34										13.014	Sample
11/4/2024 10:44	0.01	10.89										13.019	Sample
11/4/2024 10:45	0.01	12.02										13.017	Sample
11/4/2024 10:46	0.01	10.89										13.008	Sample
11/4/2024 10:47	0.04	12.05										13.017	Sample
11/4/2024 10:48	0.05	13.87										13.014	Sample
11/4/2024 10:49	0.04	8.44										13.014	Sample
11/4/2024 10:50	0.01	11.68										13.011	Sample
11/4/2024 10:51	0.02	16.95										13.008	Sample
11/4/2024 10:52	0.02	19.95										13.005	Sample
11/4/2024 10:53	0.02	11.74										13.008	Sample
11/4/2024 10:54	0.08	17.75										13.008	Sample
11/4/2024 10:55	0.16	23.53										13.008	Sample
11/4/2024 10:56	0.13	11.58										13.008	Sample
11/4/2024 10:57	0.02	7.92										13.011	Sample
11/4/2024 10:58	0.01	7.14										13.008	Sample
11/4/2024 10:59	0	6.19										13.008	Sample
11/4/2024 11:00	0	6.85										13.011	Sample
11/4/2024 11:01	0	12.53										13.008	Sample
11/4/2024 11:02	0	11.08										13.011	Sample
11/4/2024 11:03	0	13.88										13.008	Sample
11/4/2024 11:04	0.02	9.53										13.008	Sample
11/4/2024 11:05	0.03	9.15										13.008	Sample
11/4/2024 11:06	0.09	9.59										13.011	Sample
11/4/2024 11:07	0.1	7.11										13.011	Sample
11/4/2024 11:08	0.03	10.93										13.017	Sample
11/4/2024 11:09	0.02	21.85										13.008	Sample
11/4/2024 11:10	0.03	8.7										13.008	Sample
11/4/2024 11:11	0.01	9.61										13.014	Sample
11/4/2024 11:12	0.01	12.34										13.011	Sample
11/4/2024 11:13	0.01	16.88										13.011	Sample
11/4/2024 11:14	0.01	17.27										13.008	Sample
11/4/2024 11:15	0.02	15.45										13.008	Sample
11/4/2024 11:16	0.02	10.59										13.008	Sample
11/4/2024 11:17	0.01	8.28										13.011	Sample
11/4/2024 11:18	0	7.52										13.011	Sample
11/4/2024 11:19	0	5.76										13.008	Sample
11/4/2024 11:20	0	9.81										13.008	Sample
11/4/2024 11:21	0	7.92										13.008	Sample
11/4/2024 11:22	0	4.18										13.005	Sample
11/4/2024 11:23	0	3.96										13.005	Sample
11/4/2024 11:24	0	4.68										13.008	Sample
11/4/2024 11:25	0	4.72										13.008	Sample
11/4/2024 11:26	0	4.94										13.008	Sample
11/4/2024 11:27	0	4.79										12.999	Sample
11/4/2024 11:28	0	5.37										13.008	Sample
11/4/2024 11:29	0	5.91										13.008	Sample
11/4/2024 11:30	0	4.49										13.011	Sample
11/4/2024 11:31	0	9.75										13.008	Sample
11/4/2024 11:32	0	14.2										13.008	Sample
11/4/2024 11:33	0	6.86										13.011	Sample
11/4/2024 11:34	0	6.65										13.008	Sample
11/4/2024 11:35	0	12.17										13.014	Sample
11/4/2024 11:36	0	10.44										13.011	Sample
11/4/2024 11:37	0	8.55										13.008	Sample
11/4/2024 11:38	0	7.95										13.008	Sample
11/4/2024 11:39	0	6.36										13.005	Sample
11/4/2024 11:40	0	6.45										13.008	Sample
11/4/2024 11:41	0	13.2										13.008	Sample
11/4/2024 11:42	0	6.99										13.008	Sample
11/4/2024 11:43	0	3.23										13.005	Sample
11/4/2024 11:44	0	5.76										13.008	Sample
11/4/2024 11:45	0	7.17										13.008	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 11:46	0	5.17									13.008	Sample	
11/4/2024 11:47	0	16.12									13.008	Sample	
11/4/2024 11:48	0	6.07									13.011	Sample	
11/4/2024 11:49	0	4.36									13.005	Sample	
11/4/2024 11:50	0	4.21									13.011	Sample	
11/4/2024 11:51	0	4.37									13.008	Sample	
11/4/2024 11:52	0	3.49									13.008	Sample	
11/4/2024 11:53	0	3.77									13.008	Sample	
11/4/2024 11:54	0	6.76									13.011	Sample	
11/4/2024 11:55	0	10.7									13.008	Sample	
11/4/2024 11:56	0	3.64									13.008	Sample	
11/4/2024 11:57	0	5.87									13.005	Sample	
11/4/2024 11:58	0	3.1									13.008	Sample	
11/4/2024 11:59	0	2.42									13.008	Sample	
11/4/2024 12:00	0	3.11									13.008	Sample	
11/4/2024 12:01	0	4.17									13.005	Sample	
11/4/2024 12:02	0	3.87									12.996	Sample	
11/4/2024 12:03	0	3.94									12.999	Sample	
11/4/2024 12:04	0	4.88									13.008	Sample	
11/4/2024 12:05	0	3.85									13.005	Sample	
11/4/2024 12:06	0	3.46									13.011	Sample	
11/4/2024 12:07	0	3.12									13.008	Sample	
11/4/2024 12:08	0	3.26									13.002	Sample	
11/4/2024 12:09	0	3.23									13.008	Sample	
11/4/2024 12:10	0	2.93									13.008	Sample	
11/4/2024 12:11	0	2.24									13.008	Sample	
11/4/2024 12:12	0	1.79									13.005	Sample	
11/4/2024 12:13	0	1.75									13.005	Sample	
11/4/2024 12:14	0	1.84									13.008	Sample	
11/4/2024 12:15	0	1.64									13.005	Sample	
11/4/2024 12:16	0	1.98									13.005	Sample	
11/4/2024 12:17	0	1.7									13.005	Sample	
11/4/2024 12:18	0	1.72									13.005	Sample	
11/4/2024 12:19	0	1.66									13.008	Sample	
11/4/2024 12:20	0	1.58									13.002	Sample	
11/4/2024 12:21	0	1.94									13.008	Sample	
11/4/2024 12:22	0	3.8									13.008	Sample	
11/4/2024 12:23	0	2.36									12.999	Sample	
11/4/2024 12:24	0	1.58									13.002	Sample	
11/4/2024 12:25	0	5.92									13.008	Sample	
11/4/2024 12:26	0	3.53									12.999	Sample	
11/4/2024 12:27	0	2.23									13.008	Sample	
11/4/2024 12:28	0	2.12									13.005	Sample	
11/4/2024 12:29	0	1.88									13.005	Sample	
11/4/2024 12:30	0	1.37									12.999	Sample	
11/4/2024 12:31	0	1.68									13.002	Sample	
11/4/2024 12:32	0	2.1									13.005	Sample	
11/4/2024 12:33	0	1.73									13.005	Sample	
11/4/2024 12:34	0	2.13									12.996	Sample	
11/4/2024 12:35	0	2.05									12.999	Sample	
11/4/2024 12:36	0	1.73									13.002	Sample	
11/4/2024 12:37	0	1.64									12.999	Sample	
11/4/2024 12:38	0	2.04									13.005	Sample	
11/4/2024 12:39	0	4.53									13.002	Sample	
11/4/2024 12:40	0	2.77									12.996	Sample	
11/4/2024 12:41	0	2.4									12.996	Sample	
11/4/2024 12:42	0.13	3.74									12.999	Sample	
11/4/2024 12:43	0.29	21.56									12.999	Sample	
11/4/2024 12:44	0.42	61.95									12.999	Sample	
11/4/2024 12:45	0.85	50.27									12.993	Sample	
11/4/2024 12:46	0.91	34.93									13.002	Sample	
11/4/2024 12:47	0.89	24.66									12.993	Sample	
11/4/2024 12:48	0.8	60.21									12.996	Sample	
11/4/2024 12:49	0.46	18.81									12.993	Sample	
11/4/2024 12:50	0.07	2.56									12.999	Sample	
11/4/2024 12:51	0	2.54									12.996	Sample	
11/4/2024 12:52	0	2.14									12.993	Sample	
11/4/2024 12:53	0	2.85									12.993	Sample	
11/4/2024 12:54	0	3.67									12.993	Sample	
11/4/2024 12:55	0	4.92									12.996	Sample	
11/4/2024 12:56	0	1.98									12.987	Sample	
11/4/2024 12:57	0	1.83									12.996	Sample	

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 12:58	0.02	2.31									12.996	Sample	
11/4/2024 12:59	0.01	2.41									12.984	Sample	
11/4/2024 13:00	0	1.9									12.976	Sample	
11/4/2024 13:01	0	2.25									12.996	Sample	
11/4/2024 13:02	0	1.84									12.99	Sample	
11/4/2024 13:03	0	2.32									12.981	Sample	
11/4/2024 13:04	0	2.59									12.987	Sample	
11/4/2024 13:05	0	2.25									12.981	Sample	
11/4/2024 13:06	0	2.16									12.981	Sample	
11/4/2024 13:07	0	7.04									12.993	Sample	
11/4/2024 13:08	0	5.62									12.987	Sample	
11/4/2024 13:09	0	2.67									12.99	Sample	
11/4/2024 13:10	0	2.55									12.976	Sample	
11/4/2024 13:11	0	2.8									12.987	Sample	
11/4/2024 13:12	0	3.65									12.976	Sample	
11/4/2024 13:13	0	3.11									12.99	Sample	
11/4/2024 13:14	0	4.53									12.976	Sample	
11/4/2024 13:15	0	3.19									12.981	Sample	
11/4/2024 13:16	0	1.83									12.981	Sample	
11/4/2024 13:17	0	3.11									12.981	Sample	
11/4/2024 13:18	0	2.83									12.979	Sample	
11/4/2024 13:19	0	2.49									12.973	Sample	
11/4/2024 13:20	0	2.26									12.979	Sample	
11/4/2024 13:21	0	1.89									12.987	Sample	
11/4/2024 13:22	0	2.05									12.979	Sample	
11/4/2024 13:23	0	7.39									12.979	Sample	
11/4/2024 13:24	0	8.67									12.973	Sample	
11/4/2024 13:25	0.02	8.73									12.979	Sample	
11/4/2024 13:26	0.02	26.85									12.984	Sample	
11/4/2024 13:27	0.02	22.46									12.979	Sample	
11/4/2024 13:28	0.02	7.03									12.973	Sample	
11/4/2024 13:29	0.02	7.39									12.97	Sample	
11/4/2024 13:30	0.02	6.62									12.973	Sample	
11/4/2024 13:31												Zero	
11/4/2024 13:32												Zero	
11/4/2024 13:33												Zero	
11/4/2024 13:34												Zero	
11/4/2024 13:35	0.08	21.24									12.976	Sample	
11/4/2024 13:36	0.08	19.79									12.973	Sample	
11/4/2024 13:37	0.01	14.55									12.973	Sample	
11/4/2024 13:38	0	7.76									12.973	Sample	
11/4/2024 13:39	0	7.06									12.973	Sample	
11/4/2024 13:40	0	6.26									12.976	Sample	
11/4/2024 13:41	0	3.92									12.976	Sample	
11/4/2024 13:42	0	3.47									12.973	Sample	
11/4/2024 13:43	0	4.64									12.973	Sample	
11/4/2024 13:44	0	5.86									12.973	Sample	
11/4/2024 13:45	0	7.99									12.973	Sample	
11/4/2024 13:46	0	8.63									12.973	Sample	
11/4/2024 13:47	0	11.86									12.973	Sample	
11/4/2024 13:48	0	6.47									12.973	Sample	
11/4/2024 13:49	0	7.39									12.973	Sample	
11/4/2024 13:50	0	15.74									12.976	Sample	
11/4/2024 13:51	0.01	8.22									12.973	Sample	
11/4/2024 13:52	0	6.52									12.973	Sample	
11/4/2024 13:53	0	6									12.973	Sample	
11/4/2024 13:54	0	4.33									12.967	Sample	
11/4/2024 13:55	0	4.28									12.97	Sample	
11/4/2024 13:56	0	2.33									12.961	Sample	
11/4/2024 13:57	0	3.22									12.961	Sample	
11/4/2024 13:58	0	2.05									12.955	Sample	
11/4/2024 13:59	0	2.06									12.97	Sample	
11/4/2024 14:00	0	3.08									12.97	Sample	
11/4/2024 14:01	0	9.69									12.97	Sample	
11/4/2024 14:02	0	22.84									12.97	Sample	
11/4/2024 14:03	0	5.08									12.97	Sample	
11/4/2024 14:04	0	3.03									12.97	Sample	
11/4/2024 14:05	0	2.45									12.973	Sample	
11/4/2024 14:06	0	2.12									12.964	Sample	
11/4/2024 14:07	0	2.45									12.961	Sample	
11/4/2024 14:08	0	2.34									12.97	Sample	
11/4/2024 14:09	0	2.28									12.964	Sample	

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 14:10	0	1.98									12.967	Sample	
11/4/2024 14:11	0	6.55									12.961	Sample	
11/4/2024 14:12	0	8.55									12.964	Sample	
11/4/2024 14:13	0	7.54									12.961	Sample	
11/4/2024 14:14	0.07	12.14									12.955	Sample	
11/4/2024 14:15	0.03	15.94									12.946	Sample	
11/4/2024 14:16	0.01	12.91									12.955	Sample	
11/4/2024 14:17	0	8.39									12.949	Sample	
11/4/2024 14:18	0	8.69									12.946	Sample	
11/4/2024 14:19	0	27.21									12.938	Sample	
11/4/2024 14:20	0	12.25									12.949	Sample	
11/4/2024 14:21	0.01	16.59									12.938	Sample	
11/4/2024 14:22	0.01	21.14									12.938	Sample	
11/4/2024 14:23	0	8.63									12.94	Sample	
11/4/2024 14:24	0	4.54									12.94	Sample	
11/4/2024 14:25	0	5.28									12.94	Sample	
11/4/2024 14:26	0	3.84									12.938	Sample	
11/4/2024 14:27	0	3.57									12.94	Sample	
11/4/2024 14:28	0	2.53									12.938	Sample	
11/4/2024 14:29	0	2.08									12.938	Sample	
11/4/2024 14:30	0	2.81									12.935	Sample	
11/4/2024 14:31	0	2.54									12.94	Sample	
11/4/2024 14:32	0	2.74									12.938	Sample	
11/4/2024 14:33	0	2.59									12.938	Sample	
11/4/2024 14:34	0.01	5.87									12.938	Sample	
11/4/2024 14:35	0.01	5.88									12.94	Sample	
11/4/2024 14:36	0.01	5.1									12.938	Sample	
11/4/2024 14:37	0	6.04									12.932	Sample	
11/4/2024 14:38	0	6.45									12.935	Sample	
11/4/2024 14:39	0	7.82									12.938	Sample	
11/4/2024 14:40	0	10.9									12.938	Sample	
11/4/2024 14:41	0	8.58									12.935	Sample	
11/4/2024 14:42	0	8.41									12.935	Sample	
11/4/2024 14:43	0	5.02									12.935	Sample	
11/4/2024 14:44	0	5.25									12.932	Sample	
11/4/2024 14:45	0	4.59									12.932	Sample	
11/4/2024 14:46	0	4.97									12.929	Sample	
11/4/2024 14:47	0	4.85									12.926	Sample	
11/4/2024 14:48	0	10.77									12.917	Sample	
11/4/2024 14:49	0.01	12.49									12.929	Sample	
11/4/2024 14:50	0.01	11.38									12.932	Sample	
11/4/2024 14:51	0	10.69									12.911	Sample	
11/4/2024 14:52	0	14.06									12.923	Sample	
11/4/2024 14:53	0	16.09									12.917	Sample	
11/4/2024 14:54	0	20.34									12.911	Sample	
11/4/2024 14:55	0.11	16.23									12.911	Sample	
11/4/2024 14:56	0.05	11.45									12.908	Sample	
11/4/2024 14:57	0.01	16.11									12.905	Sample	
11/4/2024 14:58	0	9									12.911	Sample	
11/4/2024 14:59	0.02	10.03									12.914	Sample	
11/4/2024 15:00	0.02	7.28									12.911	Sample	
11/4/2024 15:01	0	4.53									12.905	Sample	
11/4/2024 15:02	0	7.18									12.902	Sample	
11/4/2024 15:03	0	13.32									12.902	Sample	
11/4/2024 15:04	0	8.4									12.902	Sample	
11/4/2024 15:05	0	6.77									12.902	Sample	
11/4/2024 15:06	0	6.45									12.899	Sample	
11/4/2024 15:07	0.11	17.75									12.902	Sample	
11/4/2024 15:08	0.05	9.92									12.899	Sample	
11/4/2024 15:09	0	9.83									12.902	Sample	
11/4/2024 15:10	0	9.35									12.902	Sample	
11/4/2024 15:11	0	4.12									12.902	Sample	
11/4/2024 15:12	0	9.52									12.902	Sample	
11/4/2024 15:13	0	10.02									12.899	Sample	
11/4/2024 15:14	0	8.3									12.902	Sample	
11/4/2024 15:15	0	8.54									12.902	Sample	
11/4/2024 15:16	0	17.47									12.899	Sample	
11/4/2024 15:17	0	7.88									12.896	Sample	
11/4/2024 15:18	0.01	7.84									12.902	Sample	
11/4/2024 15:19	0.01	8.61									12.902	Sample	
11/4/2024 15:20	0	5.86									12.882	Sample	
11/4/2024 15:21	0	4.44									12.888	Sample	

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 15:22	0	7.35									12.885	Sample	
11/4/2024 15:23	0	5.24									12.888	Sample	
11/4/2024 15:24	0	6.18									12.876	Sample	
11/4/2024 15:25	0	4.81									12.882	Sample	
11/4/2024 15:26	0	4.35									12.879	Sample	
11/4/2024 15:27	0	4.6									12.882	Sample	
11/4/2024 15:28	0	8.54									12.882	Sample	
11/4/2024 15:29	0	11.12									12.873	Sample	
11/4/2024 15:30	0	12.41									12.876	Sample	
11/4/2024 15:31	0	15.63									12.876	Sample	
11/4/2024 15:32	0	9.4									12.87	Sample	
11/4/2024 15:33	0	35.23									12.876	Sample	
11/4/2024 15:34	0.02	16.22									12.867	Sample	
11/4/2024 15:35	0	8.14									12.867	Sample	
11/4/2024 15:36	0.01	6.12									12.867	Sample	
11/4/2024 15:37	0	11.18									12.87	Sample	
11/4/2024 15:38	0	16.45									12.867	Sample	
11/4/2024 15:39	0	9.37									12.87	Sample	
11/4/2024 15:40	0.01	6.71									12.867	Sample	
11/4/2024 15:41	0	7.27									12.867	Sample	
11/4/2024 15:42	0	6.95									12.87	Sample	
11/4/2024 15:43	0	6.59									12.867	Sample	
11/4/2024 15:44	0.01	5.51									12.867	Sample	
11/4/2024 15:45	0	5.74									12.873	Sample	
11/4/2024 15:46	0	3.75									12.867	Sample	
11/4/2024 15:47	0	4.54									12.867	Sample	
11/4/2024 15:48	0	6.36									12.867	Sample	
11/4/2024 15:49	0	7.11									12.867	Sample	
11/4/2024 15:50	0	13.4									12.867	Sample	
11/4/2024 15:51	0	25.34									12.864	Sample	
11/4/2024 15:52	0	11.19									12.861	Sample	
11/4/2024 15:53	0	6.84									12.867	Sample	
11/4/2024 15:54	0	7.65									12.858	Sample	
11/4/2024 15:55	0	7.47									12.867	Sample	
11/4/2024 15:56	0	6.08									12.864	Sample	
11/4/2024 15:57	0	7.79									12.864	Sample	
11/4/2024 15:58	0	4.67									12.867	Sample	
11/4/2024 15:59	0	3.63									12.858	Sample	
11/4/2024 16:00	0	3.74									12.856	Sample	
11/4/2024 16:01	0	4.06									12.858	Sample	
11/4/2024 16:02	0	4.64									12.867	Sample	
11/4/2024 16:03	0	4.17									12.867	Sample	
11/4/2024 16:04	0	3.76									12.858	Sample	
11/4/2024 16:05	0	3.78									12.861	Sample	
11/4/2024 16:06	0	2.73									12.856	Sample	
11/4/2024 16:07	0	2.66									12.861	Sample	
11/4/2024 16:08	0	2.26									12.856	Sample	
11/4/2024 16:09	0	2.5									12.867	Sample	

WSP · Luquer Street Brooklyn · 2319 (AQS1 19052023-2319)
Instrument Data export
11/4/2024 to 11/4/2024
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 1 minute

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 9:30		6.31										13.359	Sample
11/4/2024 9:31	0	6.27										13.324	Sample
11/4/2024 9:32	0	5.74										13.236	Sample
11/4/2024 9:33													Zero
11/4/2024 9:34													Zero
11/4/2024 9:35													Zero
11/4/2024 9:36													Zero
11/4/2024 9:37	0	4.94										13.154	Sample
11/4/2024 9:38	0	5.79										13.172	Sample
11/4/2024 9:41	0	4.02										13.148	Sample
11/4/2024 9:42	0	7.19										13.148	Sample
11/4/2024 9:43													Zero
11/4/2024 9:44													Zero
11/4/2024 9:45													Zero
11/4/2024 9:46	0	4.75										13.148	Sample
11/4/2024 9:47	0	3.75										13.157	Sample
11/4/2024 9:48	0	3.6										13.151	Sample
11/4/2024 9:49	0	4.89										13.154	Sample
11/4/2024 9:50	0	4.31										13.148	Sample
11/4/2024 9:51	0	7.23										13.143	Sample
11/4/2024 9:52	0	3.9										13.143	Sample
11/4/2024 9:53	0	3.59										13.146	Sample
11/4/2024 9:54	0	3.46										13.148	Sample
11/4/2024 9:55	0	3.64										13.151	Sample
11/4/2024 9:56	0	3.61										13.137	Sample
11/4/2024 9:57	0	3.46										13.14	Sample
11/4/2024 9:58	0	3.54										13.14	Sample
11/4/2024 9:59	0	3.92										13.146	Sample
11/4/2024 10:00	0	3.59										13.146	Sample
11/4/2024 10:01	0	3.19										13.146	Sample
11/4/2024 10:02	0	3.1										13.146	Sample
11/4/2024 10:03	0	3.29										13.143	Sample
11/4/2024 10:04	0	3.38										13.146	Sample
11/4/2024 10:05	0	3.25										13.14	Sample
11/4/2024 10:06	0	3.06										13.146	Sample
11/4/2024 10:07	0	3.17										13.146	Sample
11/4/2024 10:08	0	3.5										13.146	Sample
11/4/2024 10:09	0	3.86										13.128	Sample
11/4/2024 10:10	0	3.82										13.146	Sample
11/4/2024 10:11	0	3.59										13.143	Sample
11/4/2024 10:12	0	3.1										13.143	Sample
11/4/2024 10:13	0	2.98										13.143	Sample
11/4/2024 10:14	0	3.14										13.146	Sample
11/4/2024 10:15	0	3.23										13.143	Sample
11/4/2024 10:16	0	3.19										13.143	Sample
11/4/2024 10:17	0	3.47										13.143	Sample
11/4/2024 10:18	0	3.39										13.131	Sample
11/4/2024 10:19	0	3.6										13.146	Sample
11/4/2024 10:20	0	3.4										13.146	Sample
11/4/2024 10:21	0	3.1										13.146	Sample
11/4/2024 10:22	0	3.06										13.134	Sample
11/4/2024 10:23	0	4.47										13.137	Sample
11/4/2024 10:24	0	5.05										13.151	Sample
11/4/2024 10:25	0	9.82										13.125	Sample
11/4/2024 10:26	0	6.63										13.143	Sample
11/4/2024 10:27	0	4.84										13.137	Sample
11/4/2024 10:28	0	4.9										13.14	Sample
11/4/2024 10:29	0	4.93										13.143	Sample
11/4/2024 10:30	0	4.7										13.137	Sample
11/4/2024 10:31	0	5.05										13.14	Sample
11/4/2024 10:32	0	5.14										13.134	Sample

Time	VOC (ppm)	PM10 ($\mu g/m^3$)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 10:33	0	4.33										13.134	Sample
11/4/2024 10:34	0	3.56										13.131	Sample
11/4/2024 10:35	0	3.51										13.14	Sample
11/4/2024 10:36	0	3.27										13.131	Sample
11/4/2024 10:37	0	3.79										13.14	Sample
11/4/2024 10:38	0	3.68										13.131	Sample
11/4/2024 10:39	0	3.66										13.137	Sample
11/4/2024 10:40	0	3.56										13.134	Sample
11/4/2024 10:41	0	3.87										13.131	Sample
11/4/2024 10:42	0	3.31										13.131	Sample
11/4/2024 10:43	0	3.52										13.122	Sample
11/4/2024 10:44	0	4.47										13.122	Sample
11/4/2024 10:45	0	3.75										13.125	Sample
11/4/2024 10:46	0	4.11										13.116	Sample
11/4/2024 10:47	0	3.98										13.14	Sample
11/4/2024 10:48	0	3.18										13.131	Sample
11/4/2024 10:49	0	3.44										13.122	Sample
11/4/2024 10:50	0	3.77										13.128	Sample
11/4/2024 10:51	0	4.88										13.131	Sample
11/4/2024 10:52	0	4.68										13.131	Sample
11/4/2024 10:53	0	5.16										13.134	Sample
11/4/2024 10:54	0	6.02										13.125	Sample
11/4/2024 10:55	0	7.84										13.122	Sample
11/4/2024 10:56	0	5.3										13.125	Sample
11/4/2024 10:57	0	4.54										13.119	Sample
11/4/2024 10:58	0	4.97										13.122	Sample
11/4/2024 10:59	0	5.04										13.125	Sample
11/4/2024 11:00	0	8.95										13.125	Sample
11/4/2024 11:01	0	7.27										13.131	Sample
11/4/2024 11:02	0	16.76										13.116	Sample
11/4/2024 11:03	0	19.09										13.119	Sample
11/4/2024 11:04	0	7.35										13.119	Sample
11/4/2024 11:05	0	4.88										13.122	Sample
11/4/2024 11:06	0	3.59										13.122	Sample
11/4/2024 11:07	0	3.57										13.128	Sample
11/4/2024 11:08	0	3.34										13.125	Sample
11/4/2024 11:09	0	3.4										13.116	Sample
11/4/2024 11:10	0	3.65										13.119	Sample
11/4/2024 11:11	0	3.49										13.119	Sample
11/4/2024 11:12	0	7.8										13.119	Sample
11/4/2024 11:13	0	9.81										13.119	Sample
11/4/2024 11:14	0	4.73										13.122	Sample
11/4/2024 11:15	0	3.84										13.116	Sample
11/4/2024 11:16	0	3.85										13.113	Sample
11/4/2024 11:17	0	3.64										13.116	Sample
11/4/2024 11:18	0	4.03										13.119	Sample
11/4/2024 11:19	0	4.52										13.125	Sample
11/4/2024 11:20	0	3.32										13.113	Sample
11/4/2024 11:21	0	3.23										13.119	Sample
11/4/2024 11:22	0	3.18										13.116	Sample
11/4/2024 11:23	0	3.1										13.116	Sample
11/4/2024 11:24	0	3.24										13.113	Sample
11/4/2024 11:25	0	3.91										13.119	Sample
11/4/2024 11:26	0	4.12										13.113	Sample
11/4/2024 11:27	0	4.08										13.113	Sample
11/4/2024 11:28	0	5.22										13.125	Sample
11/4/2024 11:29	0	4.24										13.125	Sample
11/4/2024 11:30	0	4.22										13.116	Sample
11/4/2024 11:31	0	4.72										13.11	Sample
11/4/2024 11:32	0	5.15										13.122	Sample
11/4/2024 11:33	0	5.74										13.122	Sample
11/4/2024 11:34	0	5.32										13.113	Sample
11/4/2024 11:35	0	5.17										13.113	Sample
11/4/2024 11:36	0	6.23										13.116	Sample
11/4/2024 11:37	0	7.15										13.116	Sample
11/4/2024 11:38	0	5.08										13.11	Sample
11/4/2024 11:39	0	7.12										13.116	Sample
11/4/2024 11:40	0	4.91										13.119	Sample
11/4/2024 11:41	0	4.42										13.11	Sample
11/4/2024 11:42	0	4.43										13.116	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 11:43	0	3.74										13.122	Sample
11/4/2024 11:44	0	4.17										13.113	Sample
11/4/2024 11:45	0	3.8										13.113	Sample
11/4/2024 11:46	0	6.93										13.113	Sample
11/4/2024 11:47	0	8.87										13.11	Sample
11/4/2024 11:48	0	6.41										13.119	Sample
11/4/2024 11:49	0	4.83										13.113	Sample
11/4/2024 11:50	0	4.21										13.122	Sample
11/4/2024 11:51	0	4.45										13.116	Sample
11/4/2024 11:52	0	4.51										13.11	Sample
11/4/2024 11:53	0	5.79										13.11	Sample
11/4/2024 11:54	0	4.21										13.122	Sample
11/4/2024 11:55	0	5.12										13.113	Sample
11/4/2024 11:56	0	3.38										13.11	Sample
11/4/2024 11:57	0	3										13.116	Sample
11/4/2024 11:58	0	3.6										13.11	Sample
11/4/2024 11:59	0	4.38										13.113	Sample
11/4/2024 12:00	0	5.06										13.116	Sample
11/4/2024 12:01	0	5.35										13.11	Sample
11/4/2024 12:02	0	4.91										13.113	Sample
11/4/2024 12:03	0	5.89										13.119	Sample
11/4/2024 12:04	0	4.6										13.113	Sample
11/4/2024 12:05	0	3.81										13.107	Sample
11/4/2024 12:06	0	3.37										13.113	Sample
11/4/2024 12:07	0	3.08										13.116	Sample
11/4/2024 12:08	0	2.85										13.104	Sample
11/4/2024 12:09	0	2.92										13.11	Sample
11/4/2024 12:10	0	2.8										13.113	Sample
11/4/2024 12:11	0	2.79										13.11	Sample
11/4/2024 12:12	0	2.75										13.113	Sample
11/4/2024 12:13	0	2.66										13.11	Sample
11/4/2024 12:14	0	2.95										13.113	Sample
11/4/2024 12:15	0	2.72										13.113	Sample
11/4/2024 12:16	0	2.84										13.113	Sample
11/4/2024 12:17	0	2.79										13.113	Sample
11/4/2024 12:18	0	2.88										13.11	Sample
11/4/2024 12:19	0	3.05										13.107	Sample
11/4/2024 12:20	0	2.61										13.116	Sample
11/4/2024 12:21	0	3.06										13.11	Sample
11/4/2024 12:22	0	2.96										13.11	Sample
11/4/2024 12:23	0	2.65										13.107	Sample
11/4/2024 12:24	0	2.9										13.11	Sample
11/4/2024 12:25	0	2.86										13.107	Sample
11/4/2024 12:26	0	2.92										13.11	Sample
11/4/2024 12:27	0	2.78										13.107	Sample
11/4/2024 12:28	0	2.84										13.113	Sample
11/4/2024 12:29	0	2.78										13.11	Sample
11/4/2024 12:30	0	2.58										13.104	Sample
11/4/2024 12:31	0	2.7										13.09	Sample
11/4/2024 12:32	0	2.79										13.11	Sample
11/4/2024 12:33	0	2.6										13.102	Sample
11/4/2024 12:34	0	2.91										13.113	Sample
11/4/2024 12:35	0	3.1										13.113	Sample
11/4/2024 12:36	0	2.94										13.113	Sample
11/4/2024 12:37	0	2.71										13.107	Sample
11/4/2024 12:38	0	2.81										13.104	Sample
11/4/2024 12:39	0	2.68										13.104	Sample
11/4/2024 12:40	0	2.58										13.11	Sample
11/4/2024 12:41	0	2.8										13.11	Sample
11/4/2024 12:42	0	2.79										13.107	Sample
11/4/2024 12:43	0	2.51										13.099	Sample
11/4/2024 12:44	0	2.43										13.102	Sample
11/4/2024 12:45	0	2.69										13.099	Sample
11/4/2024 12:46	0	2.74										13.11	Sample
11/4/2024 12:47	0	2.75										13.096	Sample
11/4/2024 12:48	0	2.92										13.096	Sample
11/4/2024 12:49	0	2.44										13.107	Sample
11/4/2024 12:50	0	2.42										13.093	Sample
11/4/2024 12:51	0	2.52										13.093	Sample
11/4/2024 12:52	0	2.43										13.09	Sample

Time	VOC (ppm)	PM10 ($\mu g/m^3$)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 12:53	0	2.42										13.096	Sample
11/4/2024 12:54	0	2.6										13.09	Sample
11/4/2024 12:55	0	2.77										13.087	Sample
11/4/2024 12:56	0	2.49										13.087	Sample
11/4/2024 12:57	0	2.58										13.084	Sample
11/4/2024 12:58	0	2.58										13.09	Sample
11/4/2024 12:59	0	2.61										13.087	Sample
11/4/2024 13:00	0	2.86										13.087	Sample
11/4/2024 13:01	0	2.71										13.087	Sample
11/4/2024 13:02	0	2.54										13.084	Sample
11/4/2024 13:03	0	2.58										13.087	Sample
11/4/2024 13:04	0	2.59										13.081	Sample
11/4/2024 13:05	0	2.56										13.087	Sample
11/4/2024 13:06	0	2.72										13.081	Sample
11/4/2024 13:07	0	4.44										13.078	Sample
11/4/2024 13:08	0	4.25										13.078	Sample
11/4/2024 13:09	0	3.36										13.093	Sample
11/4/2024 13:10	0	3.16										13.078	Sample
11/4/2024 13:11	0	3.03										13.078	Sample
11/4/2024 13:12	0	3.14										13.078	Sample
11/4/2024 13:13	0	2.95										13.078	Sample
11/4/2024 13:14	0	2.71										13.087	Sample
11/4/2024 13:15	0	2.66										13.084	Sample
11/4/2024 13:16	0	2.82										13.078	Sample
11/4/2024 13:17	0	3.04										13.084	Sample
11/4/2024 13:18	0	2.91										13.081	Sample
11/4/2024 13:19	0	3.07										13.078	Sample
11/4/2024 13:20	0	2.91										13.078	Sample
11/4/2024 13:21	0	2.85										13.078	Sample
11/4/2024 13:22	0	2.84										13.078	Sample
11/4/2024 13:23	0	5.47										13.081	Sample
11/4/2024 13:24	0	2.11										13.084	Sample
11/4/2024 13:25	0	2.65										13.081	Sample
11/4/2024 13:26	0	2.68										13.078	Sample
11/4/2024 13:27	0	3.04										13.078	Sample
11/4/2024 13:28	0	4.01										13.072	Sample
11/4/2024 13:29	0	3.46										13.078	Sample
11/4/2024 13:30	0	3.5										13.078	Sample
11/4/2024 13:31	0	2.42										13.078	Sample
11/4/2024 13:32	0	2.52										13.078	Sample
11/4/2024 13:33	0	4.33										13.087	Sample
11/4/2024 13:34	0	4.47										13.075	Sample
11/4/2024 13:35	0	3.88										13.078	Sample
11/4/2024 13:36	0	2.8										13.072	Sample
11/4/2024 13:37	0	4.04										13.084	Sample
11/4/2024 13:38	0	3.39										13.075	Sample
11/4/2024 13:39	0	2.97										13.075	Sample
11/4/2024 13:40													Zero
11/4/2024 13:41													Zero
11/4/2024 13:42													Zero
11/4/2024 13:43													Zero
11/4/2024 13:44	0	3.54										13.072	Sample
11/4/2024 13:45	0	6.09										13.075	Sample
11/4/2024 13:46	0	3.25										13.069	Sample
11/4/2024 13:47	0	4.71										13.081	Sample
11/4/2024 13:48	0	2.53										13.087	Sample
11/4/2024 13:49	0	2.76										13.078	Sample
11/4/2024 13:50	0	2.78										13.069	Sample
11/4/2024 13:51	0	2.54										13.066	Sample
11/4/2024 13:52	0	3.22										13.066	Sample
11/4/2024 13:53	0	1.78										13.072	Sample
11/4/2024 13:54	0	1.88										13.064	Sample
11/4/2024 13:55	0	2.26										13.055	Sample
11/4/2024 13:56	0	1.93										13.069	Sample
11/4/2024 13:57	0	2.25										13.069	Sample
11/4/2024 13:58	0	2.46										13.066	Sample
11/4/2024 13:59	0	1.96										13.064	Sample
11/4/2024 14:00	0	1.99										13.055	Sample
11/4/2024 14:01	0	2.22										13.055	Sample
11/4/2024 14:02	0	2.75										13.052	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 14:03	0	2.47										13.049	Sample
11/4/2024 14:04	0	4.03										13.046	Sample
11/4/2024 14:05	0	4.8										13.058	Sample
11/4/2024 14:06	0	2.06										13.052	Sample
11/4/2024 14:07	0	1.79										13.046	Sample
11/4/2024 14:08	0	1.54										13.052	Sample
11/4/2024 14:09	0	1.8										13.043	Sample
11/4/2024 14:10	0	2.87										13.046	Sample
11/4/2024 14:11	0	2.12										13.046	Sample
11/4/2024 14:12	0	2.02										13.043	Sample
11/4/2024 14:13	0	2.37										13.046	Sample
11/4/2024 14:14	0	2.6										13.043	Sample
11/4/2024 14:15	0	6.32										13.046	Sample
11/4/2024 14:16	0	4.67										13.043	Sample
11/4/2024 14:17	0	4.56										13.04	Sample
11/4/2024 14:18	0	3.26										13.055	Sample
11/4/2024 14:19	0	3.84										13.049	Sample
11/4/2024 14:20	0	2.54										13.046	Sample
11/4/2024 14:21	0	3.03										13.043	Sample
11/4/2024 14:22	0	2.16										13.043	Sample
11/4/2024 14:23	0	1.83										13.043	Sample
11/4/2024 14:24	0	2										13.043	Sample
11/4/2024 14:25	0	2.12										13.043	Sample
11/4/2024 14:26	0	2.79										13.043	Sample
11/4/2024 14:27	0	2.75										13.049	Sample
11/4/2024 14:28	0	1.9										13.043	Sample
11/4/2024 14:29	0	1.67										13.04	Sample
11/4/2024 14:30	0	1.82										13.037	Sample
11/4/2024 14:31	0	2.11										13.043	Sample
11/4/2024 14:32	0	4.07										13.037	Sample
11/4/2024 14:33	0	3.39										13.037	Sample
11/4/2024 14:34	0	6.01										13.034	Sample
11/4/2024 14:35	0	4.28										13.023	Sample
11/4/2024 14:36	0	4.07										13.023	Sample
11/4/2024 14:37	0	6.88										13.025	Sample
11/4/2024 14:38	0	3.06										13.031	Sample
11/4/2024 14:39	0	5.88										13.017	Sample
11/4/2024 14:40	0	4.22										13.043	Sample
11/4/2024 14:41	0	2.77										13.025	Sample
11/4/2024 14:42	0	2.37										13.019	Sample
11/4/2024 14:43	0	2.97										13.04	Sample
11/4/2024 14:44	0	2.77										13.011	Sample
11/4/2024 14:45	0	2.33										13.005	Sample
11/4/2024 14:46	0	3.35										13.008	Sample
11/4/2024 14:47	0	3.23										13.014	Sample
11/4/2024 14:48	0	2.9										13.008	Sample
11/4/2024 14:49	0	5.28										13.011	Sample
11/4/2024 14:50	0	2.33										13.008	Sample
11/4/2024 14:51	0	2.15										13.014	Sample
11/4/2024 14:52	0	2.79										13.008	Sample
11/4/2024 14:53	0	6.2										13.008	Sample
11/4/2024 14:54	0	16.9										13.008	Sample
11/4/2024 14:55	0	8.78										13.005	Sample
11/4/2024 14:56	0	2.77										13.008	Sample
11/4/2024 14:57	0	4.75										13.008	Sample
11/4/2024 14:58	0	4.25										13.008	Sample
11/4/2024 14:59	0	3.75										13.002	Sample
11/4/2024 15:00	0	2.45										13.008	Sample
11/4/2024 15:01	0	2.08										13.002	Sample
11/4/2024 15:02	0	2.15										12.999	Sample
11/4/2024 15:03	0	3.03										13.005	Sample
11/4/2024 15:04	0	3.51										13.005	Sample
11/4/2024 15:05	0	3.08										13.005	Sample
11/4/2024 15:06	0	5										13.017	Sample
11/4/2024 15:07	0	7.03										13.005	Sample
11/4/2024 15:08	0	3.58										12.981	Sample
11/4/2024 15:09	0	3.03										12.99	Sample
11/4/2024 15:10	0	2.15										12.999	Sample
11/4/2024 15:11	0	2.17										12.999	Sample
11/4/2024 15:12	0	4.11										12.987	Sample

Time	VOC (ppm)	PM10 (µg/m^3)	WS (m/s)	WD (°)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	Latitude (°)	Longitude (°)	Altitude (m)	Compass (°)	Battery voltage (V)	Inlet
11/4/2024 15:13	0	3.93										12.984	Sample
11/4/2024 15:14	0	2.88										12.987	Sample
11/4/2024 15:15	0	1.57										12.99	Sample
11/4/2024 15:16	0	1.6										12.987	Sample
11/4/2024 15:17	0	1.75										12.976	Sample
11/4/2024 15:18	0	1.88										12.979	Sample
11/4/2024 15:19	0	1.93										12.984	Sample
11/4/2024 15:20	0	1.87										12.973	Sample
11/4/2024 15:21	0	1.8										12.973	Sample
11/4/2024 15:22	0	2.74										12.973	Sample
11/4/2024 15:23	0	4										12.976	Sample
11/4/2024 15:24	0	3.65										12.976	Sample
11/4/2024 15:25	0	2.6										12.973	Sample
11/4/2024 15:26	0	1.92										12.976	Sample
11/4/2024 15:27	0	1.6										12.979	Sample
11/4/2024 15:28	0	4.08										12.973	Sample
11/4/2024 15:29	0	7.52										12.979	Sample
11/4/2024 15:30	0	4.82										12.973	Sample
11/4/2024 15:31	0	3.93										12.973	Sample
11/4/2024 15:32	0	2.27										12.973	Sample
11/4/2024 15:33	0	2.02										12.973	Sample
11/4/2024 15:34	0	2.11										12.973	Sample
11/4/2024 15:35	0	1.76										12.967	Sample
11/4/2024 15:36	0	2										12.97	Sample
11/4/2024 15:37	0	3.24										12.973	Sample
11/4/2024 15:38	0	2.43										12.973	Sample
11/4/2024 15:39	0	2.16										12.952	Sample
11/4/2024 15:40	0	2.11										12.973	Sample
11/4/2024 15:41	0	2.38										12.97	Sample
11/4/2024 15:42	0	2.41										12.973	Sample
11/4/2024 15:43	0	2.18										12.976	Sample
11/4/2024 15:44	0	1.98										12.97	Sample
11/4/2024 15:45	0	2.04										12.97	Sample
11/4/2024 15:46	0	2.06										12.973	Sample
11/4/2024 15:47	0	2.32										12.976	Sample
11/4/2024 15:48	0	1.81										12.967	Sample
11/4/2024 15:49	0	2.25										12.961	Sample
11/4/2024 15:50	0	26.68										12.964	Sample
11/4/2024 15:51	0	19.97										12.961	Sample
11/4/2024 15:52	0	5.74										12.961	Sample
11/4/2024 15:53	0	2.49										12.967	Sample
11/4/2024 15:54	0	2.65										12.961	Sample
11/4/2024 15:55	0	3.86										12.958	Sample
11/4/2024 15:56	0	3.04										12.961	Sample
11/4/2024 15:57	0	2.27										12.964	Sample
11/4/2024 15:58	0	1.87										12.955	Sample
11/4/2024 15:59	0	1.83										12.952	Sample
11/4/2024 16:00	0	2.29										12.955	Sample
11/4/2024 16:01	0	1.98										12.949	Sample
11/4/2024 16:02	0	1.96										12.946	Sample
11/4/2024 16:03	0	2.14										12.949	Sample
11/4/2024 16:04	0	2.5										12.949	Sample
11/4/2024 16:05	0	2.22										12.946	Sample
11/4/2024 16:06	0	1.87										12.944	Sample

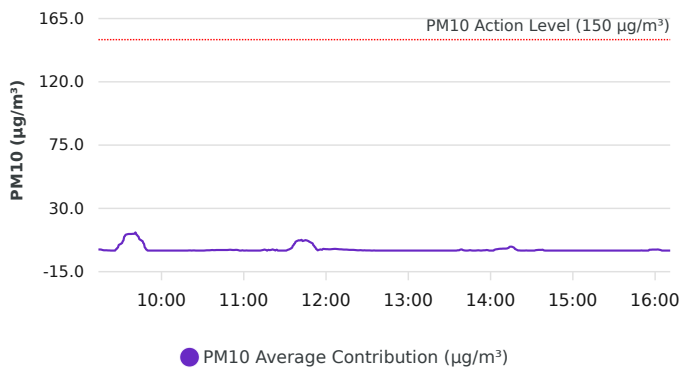
aeroqual	**Air Monitoring Report**	**Luquer Street Brooklyn**	
		Report Period	
		From:	11/5/2024 00:00
		To:	11/5/2024 23:59
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
11/5/2024	57.7-79.2	51-77.9	30.2-30.4	0.4-4.7	S

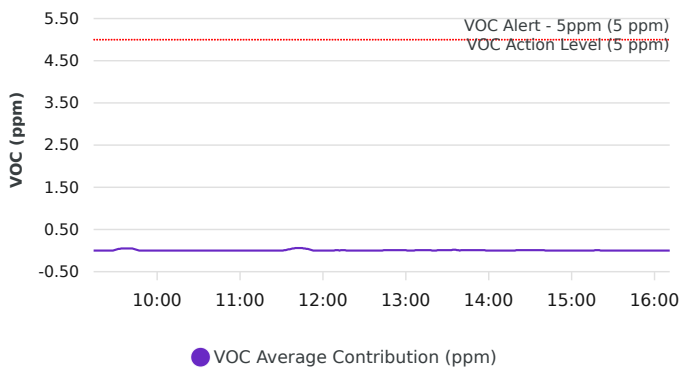
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 11/5/2024	0.0	09:23	0.00	09:14
Max Contribution (15 min avg.) - 11/5/2024	12.8	09:41	0.06	11:40



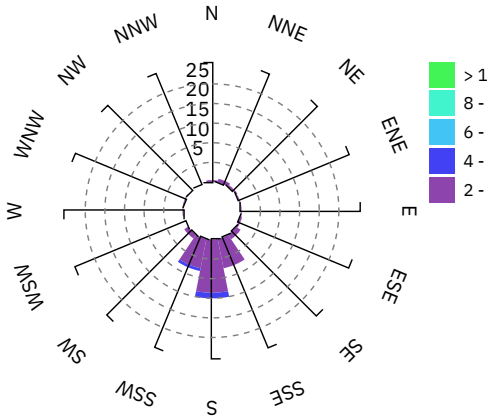
PM10 Average Contribution (µg/m³)



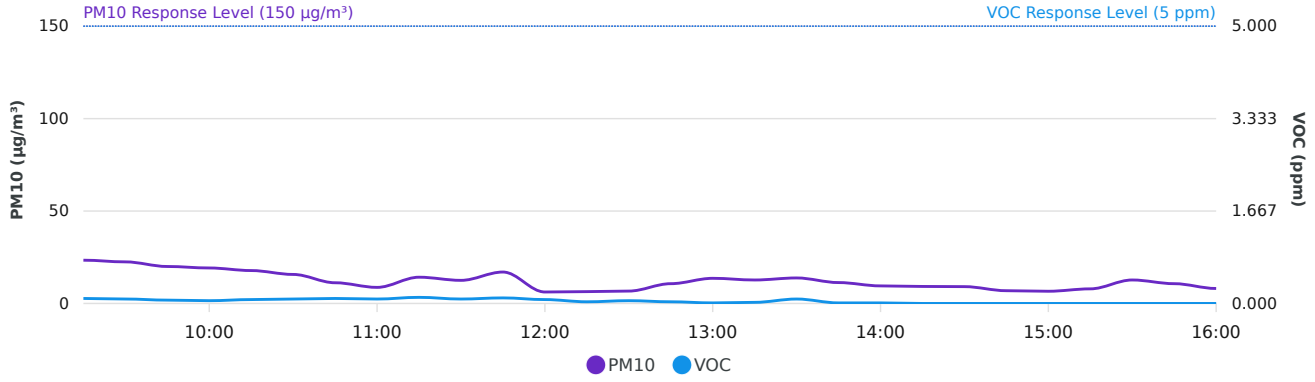
VOC Average Contribution (ppm)



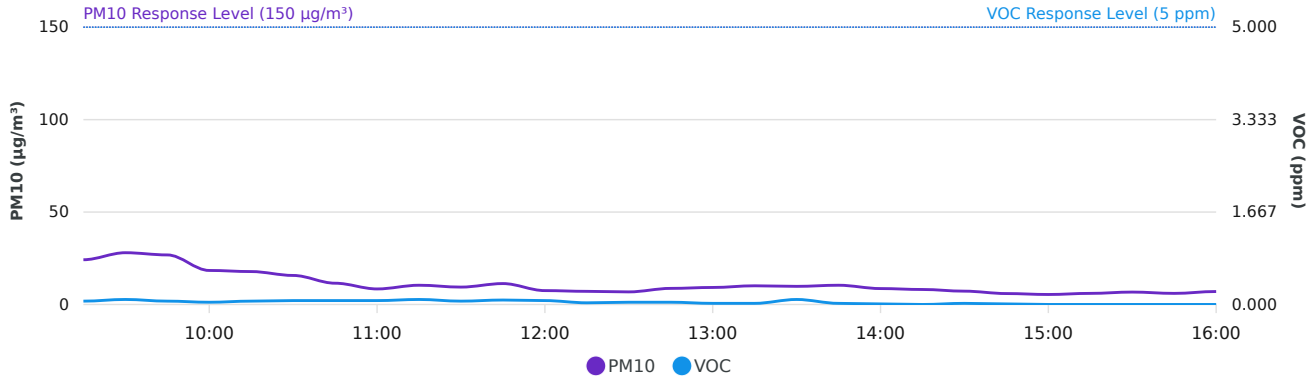
Contribution wind rose (mph)



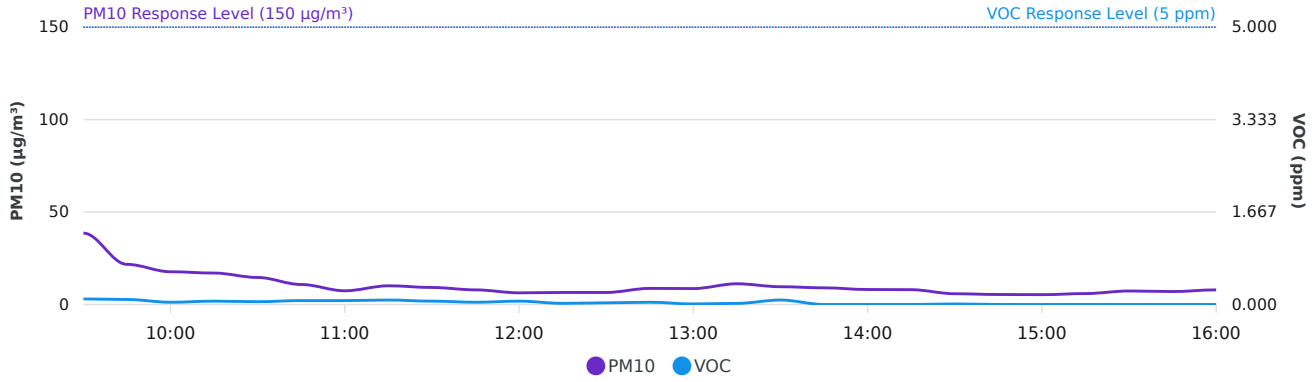
CLMW-04S-2317



CLMW-04W-2318



CLMW-04N-2319



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 09:13:00							1.6	SSW
11/5/2024 09:14:00	23.1	23.8	0.7	0.09	0.06	0.00	1.5	SSW
11/5/2024 09:15:00	23.4	24.2	0.8	0.09	0.06	0.00	1.3	S
11/5/2024 09:16:00	23.4	24.1	0.7	0.09	0.07	0.00	1.4	SSW
11/5/2024 09:17:00	23.5	23.9	0.4	0.08	0.06	0.00	1.5	SW
11/5/2024 09:18:00	23.5	23.8	0.2	0.08	0.06	0.00	1.6	SSW
11/5/2024 09:19:00	23.5	23.7	0.2	0.08	0.06	0.00	1.7	SSW
11/5/2024 09:20:00	23.4	23.6	0.2	0.08	0.07	0.00	1.9	SSW
11/5/2024 09:21:00	23.3	23.5	0.1	0.08	0.07	0.00	1.9	SSW
11/5/2024 09:22:00	23.4	23.5	0.1	0.08	0.07	0.00	1.8	SW
11/5/2024 09:23:00	23.2	23.3	0.0	0.08	0.07	0.00	1.7	SSW
11/5/2024 09:24:00	23.2	23.1	0.0	0.08	0.06	0.00	1.7	SW
11/5/2024 09:25:00	23.1	22.9	0.0	0.08	0.06	0.00	1.6	S
11/5/2024 09:26:00	24.1	23.0	0.0	0.08	0.06	0.00	1.4	N
11/5/2024 09:27:00	24.0	25.0	1.0	0.08	0.06	0.00	1.2	ESE
11/5/2024 09:28:00	23.8	25.7	2.0	0.08	0.08	0.00	1.2	S
11/5/2024 09:29:00	23.5	27.6	4.1	0.08	0.09	0.01	1.3	SSW
11/5/2024 09:30:00	23.3	27.9	4.6	0.08	0.09	0.02	1.4	SW
11/5/2024 09:31:00	23.0	28.3	5.2	0.07	0.10	0.03	1.4	SW
11/5/2024 09:32:00	22.9	29.8	6.9	0.07	0.11	0.04	1.4	S
11/5/2024 09:33:00	22.8	32.8	10.1	0.07	0.12	0.04	1.3	SSW
11/5/2024 09:34:00	22.7	34.0	11.3	0.07	0.12	0.05	1.3	SE
11/5/2024 09:35:00	22.6	34.2	11.6	0.07	0.12	0.05	1.3	SSW
11/5/2024 09:36:00	22.3	34.1	11.8	0.07	0.12	0.05	1.3	SSW
11/5/2024 09:37:00	22.1	33.9	11.8	0.07	0.12	0.05	1.4	SSW
11/5/2024 09:38:00	21.9	33.7	11.8	0.07	0.12	0.05	1.6	S
11/5/2024 09:39:00	21.8	33.6	11.9	0.07	0.12	0.05	1.6	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 09:40:00	21.6	33.5	11.9	0.07	0.12	0.05	1.6	WSW
11/5/2024 09:41:00	20.5	33.3	12.8	0.07	0.12	0.05	1.9	S
11/5/2024 09:42:00	20.2	31.3	11.1	0.07	0.12	0.05	2.0	SW
11/5/2024 09:43:00	20.1	30.2	10.1	0.06	0.11	0.04	2.0	SSW
11/5/2024 09:44:00	20.1	28.0	8.0	0.06	0.09	0.03	2.0	SSW
11/5/2024 09:45:00	20.0	27.4	7.4	0.06	0.09	0.02	1.8	NNE
11/5/2024 09:46:00	19.8	26.6	6.8	0.06	0.07	0.01	1.8	SSW
11/5/2024 09:47:00	19.7	24.8	5.1	0.06	0.06	0.00	2.0	S
11/5/2024 09:48:00	19.5	21.4	2.0	0.06	0.06	0.00	2.1	SSW
11/5/2024 09:49:00	19.3	19.9	0.7	0.05	0.05	0.00	2.1	SW
11/5/2024 09:50:00	19.5	19.4	0.0	0.05	0.05	0.00	2.1	S
11/5/2024 09:51:00	19.5	19.2	0.0	0.05	0.04	0.00	2.0	SW
11/5/2024 09:52:00	19.5	19.2	0.0	0.05	0.04	0.00	1.9	WSW
11/5/2024 09:53:00	19.4	19.1	0.0	0.04	0.04	0.00	1.7	W
11/5/2024 09:54:00	19.4	19.1	0.0	0.04	0.04	0.00	1.7	S
11/5/2024 09:55:00	19.4	19.0	0.0	0.04	0.04	0.00	1.8	SW
11/5/2024 09:56:00	19.3	18.9	0.0	0.04	0.04	0.00	1.7	W
11/5/2024 09:57:00	19.3	18.7	0.0	0.05	0.04	0.00	1.9	S
11/5/2024 09:58:00	19.3	18.5	0.0	0.05	0.04	0.00	1.9	SSW
11/5/2024 09:59:00	19.2	18.4	0.0	0.05	0.04	0.00	2.0	SSW
11/5/2024 10:00:00	19.2	18.3	0.0	0.05	0.04	0.00	2.3	S
11/5/2024 10:01:00	19.2	18.3	0.0	0.05	0.05	0.00	2.3	S
11/5/2024 10:02:00	19.2	18.3	0.0	0.05	0.05	0.00	2.1	SSW
11/5/2024 10:03:00	19.2	18.2	0.0	0.06	0.05	0.00	1.9	NW
11/5/2024 10:04:00	19.2	18.3	0.0	0.06	0.05	0.00	1.9	SSW
11/5/2024 10:05:00	18.8	18.3	0.0	0.06	0.05	0.00	1.9	S
11/5/2024 10:06:00	18.7	18.2	0.0	0.06	0.06	0.00	1.9	SSW
11/5/2024 10:07:00	18.6	18.2	0.0	0.06	0.06	0.00	2.0	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 10:08:00	18.6	18.1	0.0	0.06	0.06	0.00	2.1	SW
11/5/2024 10:09:00	18.5	18.0	0.0	0.06	0.06	0.00	2.1	SSW
11/5/2024 10:10:00	18.4	18.0	0.0	0.06	0.06	0.00	2.0	SSW
11/5/2024 10:11:00	18.3	18.0	0.0	0.06	0.06	0.00	2.1	S
11/5/2024 10:12:00	18.3	18.0	0.0	0.07	0.06	0.00	1.9	SSW
11/5/2024 10:13:00	18.1	18.0	0.0	0.07	0.06	0.00	2.0	SSW
11/5/2024 10:14:00	18.0	17.8	0.0	0.07	0.06	0.00	1.8	SSW
11/5/2024 10:15:00	17.8	17.8	0.0	0.07	0.06	0.00	1.7	SSW
11/5/2024 10:16:00	17.7	17.7	0.0	0.07	0.06	0.00	1.7	SSW
11/5/2024 10:17:00	17.5	17.5	0.0	0.07	0.06	0.00	1.9	S
11/5/2024 10:18:00	17.4	17.4	0.0	0.07	0.06	0.00	2.2	SSW
11/5/2024 10:19:00	17.1	17.1	0.0	0.07	0.06	0.00	2.2	SSW
11/5/2024 10:20:00	16.9	17.0	0.1	0.07	0.06	0.00	2.4	S
11/5/2024 10:21:00	16.7	16.8	0.1	0.06	0.05	0.00	2.5	S
11/5/2024 10:22:00	16.6	16.6	0.0	0.06	0.05	0.00	2.5	S
11/5/2024 10:23:00	16.5	16.6	0.1	0.06	0.05	0.00	2.5	S
11/5/2024 10:24:00	16.4	16.5	0.1	0.06	0.05	0.00	2.4	S
11/5/2024 10:25:00	16.3	16.3	0.0	0.07	0.06	0.00	2.4	S
11/5/2024 10:26:00	16.2	16.1	0.0	0.07	0.06	0.00	2.4	S
11/5/2024 10:27:00	16.1	16.1	0.0	0.07	0.05	0.00	2.4	S
11/5/2024 10:28:00	16.0	16.0	0.0	0.07	0.06	0.00	2.3	SSW
11/5/2024 10:29:00	15.9	15.8	0.0	0.08	0.06	0.00	2.3	SSW
11/5/2024 10:30:00	15.7	15.7	0.0	0.08	0.07	0.00	2.4	S
11/5/2024 10:31:00	15.6	15.6	0.0	0.09	0.08	0.00	2.3	SW
11/5/2024 10:32:00	15.5	15.6	0.1	0.09	0.08	0.00	2.1	SW
11/5/2024 10:33:00	15.4	15.6	0.2	0.10	0.09	0.00	2.1	S
11/5/2024 10:34:00	15.2	15.4	0.2	0.10	0.09	0.00	2.0	SSW
11/5/2024 10:35:00	15.0	15.3	0.2	0.11	0.09	0.00	1.9	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 10:36:00	14.9	15.1	0.3	0.11	0.10	0.00	1.7	SW
11/5/2024 10:37:00	14.6	15.0	0.4	0.12	0.10	0.00	1.7	SSW
11/5/2024 10:38:00	14.3	14.6	0.3	0.12	0.10	0.00	1.9	SSW
11/5/2024 10:39:00	13.9	14.2	0.3	0.12	0.10	0.00	2.0	SSW
11/5/2024 10:40:00	13.4	13.8	0.4	0.11	0.10	0.00	2.1	SSW
11/5/2024 10:41:00	13.0	13.4	0.4	0.11	0.10	0.00	2.3	SSW
11/5/2024 10:42:00	12.5	12.9	0.4	0.11	0.09	0.00	2.3	SSW
11/5/2024 10:43:00	12.1	12.5	0.4	0.10	0.09	0.00	2.3	SSW
11/5/2024 10:44:00	11.6	12.1	0.4	0.09	0.08	0.00	2.5	SSW
11/5/2024 10:45:00	11.2	11.6	0.4	0.09	0.08	0.00	2.5	S
11/5/2024 10:46:00	10.7	11.0	0.4	0.08	0.07	0.00	2.7	SSW
11/5/2024 10:47:00	10.2	10.5	0.4	0.07	0.06	0.00	2.8	SSW
11/5/2024 10:48:00	9.9	10.3	0.4	0.07	0.06	0.00	2.7	SW
11/5/2024 10:49:00	9.5	10.1	0.5	0.07	0.06	0.00	2.8	S
11/5/2024 10:50:00	9.1	9.7	0.6	0.07	0.06	0.00	2.9	S
11/5/2024 10:51:00	8.8	9.3	0.5	0.06	0.06	0.00	2.9	S
11/5/2024 10:52:00	8.6	9.0	0.4	0.06	0.06	0.00	2.9	S
11/5/2024 10:53:00	8.3	8.8	0.4	0.06	0.06	0.00	2.9	S
11/5/2024 10:54:00	8.1	8.6	0.5	0.07	0.06	0.00	2.9	S
11/5/2024 10:55:00	8.0	8.5	0.5	0.07	0.07	0.00	2.7	SE
11/5/2024 10:56:00	8.1	8.4	0.3	0.08	0.07	0.00	2.6	SE
11/5/2024 10:57:00	8.3	8.3	0.0	0.08	0.07	0.00	2.6	S
11/5/2024 10:58:00	8.3	8.3	0.0	0.08	0.07	0.00	2.6	S
11/5/2024 10:59:00	8.3	8.5	0.2	0.08	0.07	0.00	2.3	WNW
11/5/2024 11:00:00	8.5	8.6	0.0	0.08	0.07	0.00	2.1	ESE
11/5/2024 11:01:00	8.8	8.7	0.0	0.08	0.08	0.00	1.9	SE
11/5/2024 11:02:00	8.8	8.8	0.1	0.08	0.08	0.00	1.6	NE
11/5/2024 11:03:00	9.2	8.8	0.0	0.09	0.08	0.00	1.5	SW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 11:04:00	9.7	9.3	0.0	0.09	0.08	0.00	1.3	W
11/5/2024 11:05:00	10.2	9.5	0.0	0.09	0.08	0.00	1.2	S
11/5/2024 11:06:00	10.6	9.7	0.0	0.09	0.08	0.00	1.2	ESE
11/5/2024 11:07:00	10.7	10.0	0.0	0.08	0.08	0.00	1.1	E
11/5/2024 11:08:00	10.8	10.5	0.0	0.08	0.08	0.00	0.9	NE
11/5/2024 11:09:00	11.6	11.1	0.0	0.08	0.08	0.00	0.9	ESE
11/5/2024 11:10:00	12.0	11.7	0.0	0.09	0.09	0.00	0.8	S
11/5/2024 11:11:00	12.0	11.9	0.0	0.09	0.10	0.00	0.7	WSW
11/5/2024 11:12:00	12.1	12.0	0.0	0.10	0.10	0.00	0.6	S
11/5/2024 11:13:00	12.3	12.4	0.2	0.10	0.10	0.00	0.5	NNW
11/5/2024 11:14:00	12.4	12.8	0.4	0.10	0.10	0.00	0.4	NW
11/5/2024 11:15:00	12.3	13.0	0.7	0.10	0.10	0.00	0.2	WNW
11/5/2024 11:16:00	12.5	13.0	0.5	0.09	0.10	0.00	0.1	WSW
11/5/2024 11:17:00	13.0	12.9	0.0	0.10	0.10	0.00	0.3	SSE
11/5/2024 11:18:00	12.5	13.0	0.5	0.10	0.10	0.00	0.2	E
11/5/2024 11:19:00	12.3	12.6	0.3	0.10	0.10	0.00	0.5	SSE
11/5/2024 11:20:00	11.9	12.4	0.5	0.10	0.10	0.00	0.6	S
11/5/2024 11:21:00	11.6	12.4	0.8	0.10	0.10	0.00	0.7	S
11/5/2024 11:22:00	11.7	12.2	0.5	0.10	0.10	0.00	0.8	SSE
11/5/2024 11:23:00	11.8	11.8	0.1	0.10	0.10	0.00	1.1	SSW
11/5/2024 11:24:00	11.1	11.7	0.6	0.09	0.09	0.00	1.1	E
11/5/2024 11:25:00	11.7	11.6	0.0	0.09	0.09	0.00	1.1	SSE
11/5/2024 11:26:00	11.7	11.5	0.0	0.08	0.08	0.00	1.2	S
11/5/2024 11:27:00	11.5	11.4	0.0	0.08	0.08	0.00	1.3	SSE
11/5/2024 11:28:00	11.3	11.1	0.0	0.07	0.07	0.00	1.4	ENE
11/5/2024 11:29:00	11.4	10.7	0.0	0.07	0.07	0.00	1.6	SE
11/5/2024 11:30:00	11.5	10.5	0.0	0.07	0.07	0.00	1.8	SSE
11/5/2024 11:31:00	11.2	10.7	0.0	0.07	0.07	0.00	1.9	ENE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 11:32:00	10.7	11.1	0.5	0.06	0.07	0.01	1.7	NE
11/5/2024 11:33:00	10.5	11.3	0.8	0.06	0.07	0.01	1.7	ENE
11/5/2024 11:34:00	10.3	11.6	1.3	0.05	0.08	0.02	1.5	ENE
11/5/2024 11:35:00	10.1	12.0	1.9	0.05	0.08	0.03	1.4	ENE
11/5/2024 11:36:00	9.9	13.5	3.6	0.05	0.08	0.03	1.2	NNE
11/5/2024 11:37:00	9.5	14.4	4.9	0.05	0.09	0.04	1.1	NNE
11/5/2024 11:38:00	9.3	15.7	6.4	0.05	0.09	0.05	1.2	NNE
11/5/2024 11:39:00	9.2	16.1	6.9	0.04	0.10	0.05	1.2	E
11/5/2024 11:40:00	8.6	15.9	7.3	0.05	0.10	0.06	1.1	SSW
11/5/2024 11:41:00	8.8	16.0	7.2	0.05	0.10	0.06	1.1	SSE
11/5/2024 11:42:00	8.9	16.5	7.6	0.05	0.10	0.06	1.0	SW
11/5/2024 11:43:00	9.7	16.6	6.8	0.05	0.10	0.06	0.8	S
11/5/2024 11:44:00	9.6	16.7	7.1	0.05	0.10	0.06	0.7	S
11/5/2024 11:45:00	9.3	16.7	7.4	0.05	0.10	0.06	0.7	SSE
11/5/2024 11:46:00	9.2	16.4	7.2	0.05	0.10	0.05	0.7	E
11/5/2024 11:47:00	9.1	15.9	6.8	0.05	0.10	0.05	0.7	SSE
11/5/2024 11:48:00	9.1	15.3	6.2	0.06	0.10	0.04	0.6	N
11/5/2024 11:49:00	9.1	14.8	5.7	0.06	0.09	0.04	0.6	ENE
11/5/2024 11:50:00	9.1	14.3	5.2	0.06	0.09	0.03	0.5	NNW
11/5/2024 11:51:00	9.1	12.6	3.6	0.07	0.09	0.02	0.4	S
11/5/2024 11:52:00	9.1	11.4	2.4	0.07	0.08	0.01	0.5	SSW
11/5/2024 11:53:00	9.0	10.0	1.0	0.08	0.08	0.00	0.8	S
11/5/2024 11:54:00	9.0	9.2	0.2	0.08	0.07	0.00	0.9	S
11/5/2024 11:55:00	8.4	9.0	0.6	0.08	0.07	0.00	1.0	SSW
11/5/2024 11:56:00	8.0	8.8	0.8	0.08	0.07	0.00	1.0	S
11/5/2024 11:57:00	7.6	8.2	0.6	0.08	0.07	0.00	1.2	S
11/5/2024 11:58:00	6.7	7.9	1.2	0.08	0.07	0.00	1.1	SSW
11/5/2024 11:59:00	6.5	7.6	1.1	0.08	0.07	0.00	1.2	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 12:00:00	6.4	7.5	1.0	0.08	0.07	0.00	1.4	S
11/5/2024 12:01:00	6.4	7.4	1.0	0.07	0.07	0.00	1.5	S
11/5/2024 12:02:00	6.4	7.3	0.9	0.07	0.07	0.00	1.6	S
11/5/2024 12:03:00	6.3	7.3	0.9	0.07	0.06	0.00	2.0	S
11/5/2024 12:04:00	6.3	7.3	1.0	0.06	0.06	0.00	2.2	S
11/5/2024 12:05:00	6.2	7.4	1.1	0.06	0.05	0.00	2.3	WSW
11/5/2024 12:06:00	6.3	7.4	1.2	0.05	0.05	0.00	2.4	SSE
11/5/2024 12:07:00	6.3	7.4	1.2	0.05	0.05	0.00	2.5	S
11/5/2024 12:08:00	6.3	7.4	1.1	0.04	0.05	0.00	2.5	S
11/5/2024 12:09:00	6.3	7.2	1.0	0.04	0.05	0.01	2.4	S
11/5/2024 12:10:00	6.3	7.2	0.9	0.04	0.04	0.01	2.3	SSW
11/5/2024 12:11:00	6.4	7.3	0.9	0.03	0.04	0.01	2.3	SSE
11/5/2024 12:12:00	6.3	7.2	0.8	0.03	0.04	0.00	2.1	S
11/5/2024 12:13:00	6.4	7.1	0.7	0.03	0.04	0.01	2.2	S
11/5/2024 12:14:00	6.4	7.1	0.7	0.03	0.03	0.01	2.1	S
11/5/2024 12:15:00	6.4	7.1	0.7	0.03	0.03	0.01	1.9	SSE
11/5/2024 12:16:00	6.5	7.1	0.6	0.03	0.03	0.01	1.8	SW
11/5/2024 12:17:00	6.6	7.1	0.5	0.03	0.03	0.00	1.8	S
11/5/2024 12:18:00	6.6	7.1	0.5	0.03	0.03	0.00	1.7	SSW
11/5/2024 12:19:00	6.6	7.1	0.5	0.03	0.03	0.00	1.7	S
11/5/2024 12:20:00	6.6	7.1	0.5	0.03	0.03	0.00	1.8	S
11/5/2024 12:21:00	6.6	7.0	0.4	0.03	0.03	0.00	1.7	SSW
11/5/2024 12:22:00	6.6	6.9	0.3	0.03	0.03	0.00	1.5	W
11/5/2024 12:23:00	6.6	6.8	0.2	0.03	0.03	0.00	1.5	SSE
11/5/2024 12:24:00	6.7	6.9	0.2	0.03	0.03	0.00	1.5	SSW
11/5/2024 12:25:00	6.7	7.0	0.3	0.03	0.03	0.00	1.6	SSW
11/5/2024 12:26:00	6.7	6.9	0.2	0.03	0.03	0.00	1.6	S
11/5/2024 12:27:00	6.7	6.8	0.1	0.03	0.03	0.00	1.5	WSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 12:28:00	6.7	6.8	0.2	0.04	0.03	0.00	1.5	SSW
11/5/2024 12:29:00	6.7	6.8	0.1	0.04	0.04	0.00	1.7	S
11/5/2024 12:30:00	6.7	6.8	0.1	0.05	0.04	0.00	1.8	S
11/5/2024 12:31:00	6.7	6.8	0.1	0.05	0.05	0.00	2.0	S
11/5/2024 12:32:00	6.9	7.0	0.1	0.05	0.05	0.00	2.0	SSE
11/5/2024 12:33:00	7.0	7.1	0.0	0.05	0.05	0.00	2.0	S
11/5/2024 12:34:00	7.1	7.1	0.0	0.05	0.05	0.00	1.9	WSW
11/5/2024 12:35:00	7.2	7.3	0.1	0.06	0.05	0.00	1.9	S
11/5/2024 12:36:00	7.4	7.3	0.0	0.06	0.06	0.00	2.0	SSE
11/5/2024 12:37:00	7.5	7.4	0.0	0.06	0.06	0.00	2.1	SSE
11/5/2024 12:38:00	7.7	7.5	0.0	0.06	0.05	0.00	2.0	SE
11/5/2024 12:39:00	7.8	7.6	0.0	0.06	0.05	0.00	2.0	S
11/5/2024 12:40:00	8.0	7.7	0.0	0.05	0.05	0.00	1.9	SW
11/5/2024 12:41:00	8.6	8.1	0.0	0.05	0.05	0.00	1.8	ESE
11/5/2024 12:42:00	9.5	8.5	0.0	0.05	0.05	0.00	1.8	SE
11/5/2024 12:43:00	9.9	8.7	0.0	0.05	0.05	0.00	1.9	S
11/5/2024 12:44:00	10.4	8.8	0.0	0.04	0.05	0.01	1.8	SSE
11/5/2024 12:45:00	10.7	9.0	0.0	0.03	0.05	0.01	1.8	SSE
11/5/2024 12:46:00	11.2	9.1	0.0	0.03	0.04	0.01	1.7	SE
11/5/2024 12:47:00	11.4	9.0	0.0	0.03	0.04	0.01	1.8	S
11/5/2024 12:48:00	11.4	9.0	0.0	0.03	0.04	0.01	1.8	SSE
11/5/2024 12:49:00	11.7	9.1	0.0	0.03	0.04	0.01	2.0	SE
11/5/2024 12:50:00	12.0	9.1	0.0	0.02	0.03	0.01	2.0	S
11/5/2024 12:51:00	12.1	9.2	0.0	0.02	0.03	0.01	2.0	S
11/5/2024 12:52:00	12.2	9.4	0.0	0.02	0.03	0.01	1.9	SE
11/5/2024 12:53:00	12.4	9.4	0.0	0.02	0.03	0.01	2.0	SE
11/5/2024 12:54:00	12.6	9.4	0.0	0.02	0.03	0.01	2.1	SSE
11/5/2024 12:55:00	12.4	9.9	0.0	0.02	0.03	0.01	2.2	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 12:56:00	12.5	9.7	0.0	0.02	0.03	0.01	2.2	SSE
11/5/2024 12:57:00	12.2	9.5	0.0	0.02	0.02	0.01	2.2	SE
11/5/2024 12:58:00	11.9	9.8	0.0	0.01	0.02	0.01	2.2	ESE
11/5/2024 12:59:00	12.7	10.0	0.0	0.01	0.01	0.01	2.2	SE
11/5/2024 13:00:00	12.7	10.1	0.0	0.01	0.02	0.01	2.0	SSW
11/5/2024 13:01:00	12.2	10.2	0.0	0.02	0.02	0.00	1.9	E
11/5/2024 13:02:00	12.5	10.4	0.0	0.02	0.02	0.00	1.8	SE
11/5/2024 13:03:00	12.9	10.5	0.0	0.02	0.02	0.00	1.8	S
11/5/2024 13:04:00	12.7	10.6	0.0	0.02	0.02	0.00	1.7	SSE
11/5/2024 13:05:00	12.6	10.7	0.0	0.02	0.03	0.00	1.7	S
11/5/2024 13:06:00	12.8	10.8	0.0	0.02	0.03	0.00	1.7	S
11/5/2024 13:07:00	12.9	11.4	0.0	0.02	0.03	0.01	1.7	SSE
11/5/2024 13:08:00	12.9	12.3	0.0	0.02	0.03	0.01	1.7	SSE
11/5/2024 13:09:00	12.9	12.5	0.0	0.02	0.03	0.01	1.7	SSE
11/5/2024 13:10:00	13.1	12.0	0.0	0.03	0.03	0.01	1.8	SSE
11/5/2024 13:11:00	12.9	12.0	0.0	0.02	0.04	0.01	1.9	S
11/5/2024 13:12:00	12.8	12.0	0.0	0.02	0.03	0.01	1.9	SSE
11/5/2024 13:13:00	13.1	11.8	0.0	0.02	0.03	0.01	2.0	SSE
11/5/2024 13:14:00	12.3	11.7	0.0	0.02	0.03	0.01	2.2	S
11/5/2024 13:15:00	12.5	11.7	0.0	0.02	0.03	0.01	2.2	S
11/5/2024 13:16:00	12.7	12.1	0.0	0.01	0.02	0.01	2.2	E
11/5/2024 13:17:00	12.4	12.4	0.0	0.01	0.02	0.01	2.0	NW
11/5/2024 13:18:00	12.4	12.4	0.0	0.02	0.03	0.01	1.9	SE
11/5/2024 13:19:00	12.9	12.4	0.0	0.03	0.04	0.00	2.0	SSE
11/5/2024 13:20:00	13.3	12.4	0.0	0.04	0.04	0.00	2.1	S
11/5/2024 13:21:00	13.5	12.5	0.0	0.04	0.05	0.00	2.1	SSE
11/5/2024 13:22:00	13.5	12.1	0.0	0.04	0.05	0.00	2.1	SE
11/5/2024 13:23:00	13.6	11.3	0.0	0.04	0.05	0.01	2.0	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 13:24:00	13.6	11.1	0.0	0.04	0.05	0.01	2.0	S
11/5/2024 13:25:00	13.4	11.4	0.0	0.05	0.06	0.01	1.9	E
11/5/2024 13:26:00	13.2	11.6	0.0	0.05	0.06	0.01	1.7	WSW
11/5/2024 13:27:00	12.9	11.8	0.0	0.06	0.07	0.01	1.5	NW
11/5/2024 13:28:00	12.7	11.7	0.0	0.07	0.08	0.01	1.5	S
11/5/2024 13:29:00	12.5	11.6	0.0	0.08	0.09	0.01	1.4	SSE
11/5/2024 13:30:00	12.4	11.5	0.0	0.08	0.09	0.01	1.4	S
11/5/2024 13:31:00	12.2	11.2	0.0	0.08	0.09	0.01	1.2	NNE
11/5/2024 13:32:00	12.1	11.4	0.0	0.08	0.09	0.01	1.3	NE
11/5/2024 13:33:00	12.3	11.7	0.0	0.07	0.09	0.01	1.3	SSE
11/5/2024 13:34:00	12.3	12.1	0.0	0.06	0.08	0.02	1.2	S
11/5/2024 13:35:00	12.2	12.2	0.0	0.05	0.07	0.02	1.2	SE
11/5/2024 13:36:00	11.8	12.0	0.2	0.05	0.07	0.02	1.1	S
11/5/2024 13:37:00	11.5	11.8	0.2	0.05	0.07	0.01	1.2	S
11/5/2024 13:38:00	11.2	11.8	0.7	0.05	0.06	0.01	1.4	S
11/5/2024 13:39:00	11.0	11.8	0.8	0.05	0.05	0.00	1.4	S
11/5/2024 13:40:00	11.2	11.5	0.3	0.04	0.05	0.01	1.6	S
11/5/2024 13:41:00	11.1	11.2	0.1	0.04	0.05	0.01	1.7	SSW
11/5/2024 13:42:00	11.0	10.9	0.0	0.03	0.04	0.01	1.8	S
11/5/2024 13:43:00	10.9	10.8	0.0	0.02	0.03	0.01	1.8	S
11/5/2024 13:44:00	10.8	10.9	0.1	0.01	0.03	0.01	1.7	SSE
11/5/2024 13:45:00	10.5	10.8	0.3	0.01	0.02	0.01	1.7	S
11/5/2024 13:46:00	10.5	10.6	0.1	0.01	0.02	0.01	2.1	S
11/5/2024 13:47:00	10.5	10.0	0.0	0.01	0.02	0.01	2.2	SE
11/5/2024 13:48:00	10.2	9.6	0.0	0.01	0.02	0.01	2.2	S
11/5/2024 13:49:00	9.5	9.1	0.0	0.00	0.02	0.01	2.3	SSW
11/5/2024 13:50:00	9.0	9.1	0.1	0.00	0.01	0.01	2.3	S
11/5/2024 13:51:00	8.9	9.0	0.2	0.00	0.01	0.01	2.3	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 13:52:00	8.8	8.9	0.1	0.00	0.01	0.01	2.2	S
11/5/2024 13:53:00	8.7	8.8	0.0	0.00	0.01	0.01	2.1	SSW
11/5/2024 13:54:00	8.6	8.7	0.1	0.00	0.01	0.01	2.2	S
11/5/2024 13:55:00	8.3	8.6	0.2	0.00	0.01	0.01	2.2	S
11/5/2024 13:56:00	8.3	8.5	0.2	0.00	0.01	0.01	2.3	S
11/5/2024 13:57:00	8.3	8.7	0.4	0.00	0.01	0.01	2.1	NE
11/5/2024 13:58:00	8.6	8.9	0.3	0.00	0.01	0.00	2.0	SSE
11/5/2024 13:59:00	9.2	8.9	0.0	0.00	0.01	0.00	2.0	S
11/5/2024 14:00:00	9.3	8.9	0.0	0.00	0.01	0.00	2.0	SSW
11/5/2024 14:01:00	9.4	8.9	0.0	0.00	0.01	0.00	1.8	SSW
11/5/2024 14:02:00	9.2	8.9	0.0	0.00	0.01	0.00	1.6	NNE
11/5/2024 14:03:00	8.8	9.4	0.6	0.00	0.01	0.00	1.5	E
11/5/2024 14:04:00	8.7	9.6	0.9	0.01	0.01	0.00	1.3	N
11/5/2024 14:05:00	8.9	9.9	1.0	0.01	0.01	0.00	1.3	S
11/5/2024 14:06:00	8.9	10.1	1.2	0.01	0.01	0.00	1.2	S
11/5/2024 14:07:00	8.9	10.1	1.3	0.01	0.01	0.00	1.2	S
11/5/2024 14:08:00	8.8	10.1	1.3	0.01	0.01	0.00	1.1	S
11/5/2024 14:09:00	8.7	10.1	1.4	0.01	0.01	0.00	0.9	S
11/5/2024 14:10:00	8.7	10.1	1.4	0.01	0.01	0.00	0.8	SSE
11/5/2024 14:11:00	8.7	10.1	1.4	0.01	0.01	0.00	0.6	NNW
11/5/2024 14:12:00	8.6	10.1	1.5	0.01	0.01	0.00	0.6	NE
11/5/2024 14:13:00	8.1	10.1	1.9	0.00	0.00	0.00	0.5	ENE
11/5/2024 14:14:00	7.5	10.2	2.7	0.00	0.00	0.00	0.5	E
11/5/2024 14:15:00	7.5	10.3	2.8	0.00	0.00	0.00	0.5	SSE
11/5/2024 14:16:00	7.6	10.2	2.6	0.00	0.01	0.00	0.7	SSE
11/5/2024 14:17:00	8.0	10.1	2.1	0.00	0.01	0.00	0.9	SSE
11/5/2024 14:18:00	8.4	9.5	1.1	0.00	0.01	0.00	0.9	SW
11/5/2024 14:19:00	8.5	9.1	0.6	0.00	0.01	0.00	1.1	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 14:20:00	8.4	8.5	0.1	0.00	0.01	0.01	1.1	S
11/5/2024 14:21:00	8.3	8.4	0.1	0.00	0.01	0.01	1.0	WNW
11/5/2024 14:22:00	8.6	8.5	0.0	0.00	0.01	0.01	1.0	SSE
11/5/2024 14:23:00	8.7	8.6	0.0	0.00	0.01	0.01	1.0	S
11/5/2024 14:24:00	8.7	8.7	0.0	0.01	0.01	0.01	1.0	ESE
11/5/2024 14:25:00	8.8	8.9	0.0	0.01	0.01	0.01	1.0	SSE
11/5/2024 14:26:00	8.6	8.8	0.1	0.01	0.02	0.01	1.1	NNE
11/5/2024 14:27:00	8.6	8.6	0.0	0.01	0.02	0.01	1.0	NW
11/5/2024 14:28:00	8.5	8.3	0.0	0.01	0.02	0.01	1.0	E
11/5/2024 14:29:00	8.6	8.0	0.0	0.01	0.02	0.01	1.1	SE
11/5/2024 14:30:00	8.4	7.8	0.0	0.01	0.02	0.01	1.1	SSW
11/5/2024 14:31:00	8.1	7.7	0.0	0.01	0.02	0.01	1.0	SSW
11/5/2024 14:32:00	7.6	7.5	0.0	0.01	0.02	0.01	0.9	SE
11/5/2024 14:33:00	7.2	7.5	0.3	0.01	0.01	0.01	1.0	SSE
11/5/2024 14:34:00	6.9	7.4	0.4	0.01	0.01	0.01	0.9	SSE
11/5/2024 14:35:00	6.9	7.3	0.5	0.01	0.01	0.01	0.9	SSE
11/5/2024 14:36:00	6.7	7.2	0.5	0.00	0.01	0.01	0.9	NNE
11/5/2024 14:37:00	6.5	7.0	0.5	0.00	0.01	0.01	0.8	SE
11/5/2024 14:38:00	6.3	6.9	0.6	0.00	0.01	0.01	0.8	ESE
11/5/2024 14:39:00	6.6	6.7	0.1	0.00	0.01	0.01	0.8	SE
11/5/2024 14:40:00	6.5	6.4	0.0	0.01	0.01	0.01	0.7	S
11/5/2024 14:41:00	6.5	6.3	0.0	0.01	0.01	0.00	0.7	WNW
11/5/2024 14:42:00	6.5	6.6	0.0	0.01	0.01	0.00	0.8	SW
11/5/2024 14:43:00	6.7	6.5	0.0	0.00	0.01	0.00	0.9	SSE
11/5/2024 14:44:00	6.6	6.5	0.0	0.00	0.01	0.00	0.9	SE
11/5/2024 14:45:00	6.6	6.5	0.0	0.00	0.01	0.00	0.9	SE
11/5/2024 14:46:00	6.6	6.5	0.0	0.00	0.01	0.00	1.0	SE
11/5/2024 14:47:00	6.7	6.4	0.0	0.00	0.01	0.00	1.0	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 14:48:00	6.7	6.4	0.0	0.00	0.01	0.00	1.0	SE
11/5/2024 14:49:00	6.9	6.4	0.0	0.00	0.01	0.00	1.1	SSE
11/5/2024 14:50:00	6.9	6.3	0.0	0.00	0.01	0.00	1.1	SSE
11/5/2024 14:51:00	7.0	6.2	0.0	0.00	0.01	0.00	1.2	SSE
11/5/2024 14:52:00	6.9	6.2	0.0	0.00	0.01	0.00	1.1	NW
11/5/2024 14:53:00	7.1	6.1	0.0	0.01	0.00	0.00	1.1	SSE
11/5/2024 14:54:00	6.9	6.1	0.0	0.00	0.00	0.00	1.1	S
11/5/2024 14:55:00	6.8	6.0	0.0	0.00	0.00	0.00	1.1	SSE
11/5/2024 14:56:00	6.9	6.0	0.0	0.00	0.00	0.00	1.3	SSE
11/5/2024 14:57:00	6.8	5.7	0.0	0.00	0.00	0.00	1.4	SSE
11/5/2024 14:58:00	6.7	5.6	0.0	0.00	0.00	0.00	1.4	SSE
11/5/2024 14:59:00	6.6	5.6	0.0	0.00	0.00	0.00	1.4	SSE
11/5/2024 15:00:00	6.5	5.6	0.0	0.00	0.00	0.00	1.4	SSE
11/5/2024 15:01:00	6.5	5.7	0.0	0.00	0.00	0.00	1.5	SSE
11/5/2024 15:02:00	6.4	5.7	0.0	0.00	0.00	0.00	1.4	SSE
11/5/2024 15:03:00	6.5	5.8	0.0	0.00	0.00	0.00	1.5	SSE
11/5/2024 15:04:00	6.3	5.8	0.0	0.00	0.00	0.00	1.5	SSE
11/5/2024 15:05:00	6.2	5.9	0.0	0.00	0.00	0.00	1.5	SSE
11/5/2024 15:06:00	6.3	5.9	0.0	0.00	0.00	0.00	1.6	SSE
11/5/2024 15:07:00	6.5	5.8	0.0	0.00	0.00	0.00	1.7	SE
11/5/2024 15:08:00	6.8	5.9	0.0	0.00	0.00	0.00	1.7	SSE
11/5/2024 15:09:00	6.9	6.0	0.0	0.00	0.00	0.00	1.7	SE
11/5/2024 15:10:00	7.0	6.1	0.0	0.00	0.00	0.00	1.7	ESE
11/5/2024 15:11:00	7.2	6.1	0.0	0.00	0.00	0.00	1.6	SE
11/5/2024 15:12:00	7.3	6.1	0.0	0.00	0.00	0.00	1.5	SE
11/5/2024 15:13:00	7.2	6.3	0.0	0.00	0.00	0.00	1.4	E
11/5/2024 15:14:00	7.5	6.3	0.0	0.00	0.00	0.00	1.4	SE
11/5/2024 15:15:00	7.7	6.3	0.0	0.00	0.00	0.00	1.4	SE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 15:16:00	7.7	6.7	0.0	0.00	0.00	0.00	1.2	ENE
11/5/2024 15:17:00	8.2	6.7	0.0	0.00	0.01	0.01	1.2	SE
11/5/2024 15:18:00	8.3	6.8	0.0	0.00	0.01	0.01	1.1	S
11/5/2024 15:19:00	8.6	6.8	0.0	0.00	0.01	0.01	1.1	S
11/5/2024 15:20:00	9.0	7.2	0.0	0.00	0.01	0.01	1.1	SSE
11/5/2024 15:21:00	9.4	7.3	0.0	0.00	0.00	0.00	1.0	ESE
11/5/2024 15:22:00	9.7	7.4	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 15:23:00	9.7	7.4	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 15:24:00	9.6	7.7	0.0	0.00	0.00	0.00	0.9	ENE
11/5/2024 15:25:00	9.9	7.7	0.0	0.00	0.00	0.00	1.0	SE
11/5/2024 15:26:00	10.3	7.9	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 15:27:00	10.5	8.0	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:28:00	10.7	7.9	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:29:00	10.6	8.8	0.0	0.00	0.00	0.00	1.1	ENE
11/5/2024 15:30:00	11.3	8.9	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:31:00	11.6	8.6	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:32:00	11.4	8.6	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:33:00	11.7	8.6	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:34:00	12.2	8.6	0.0	0.00	0.00	0.00	1.2	S
11/5/2024 15:35:00	12.4	8.6	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:36:00	12.3	8.8	0.0	0.00	0.00	0.00	1.2	SSE
11/5/2024 15:37:00	11.8	9.4	0.0	0.00	0.00	0.00	1.2	E
11/5/2024 15:38:00	11.5	9.8	0.0	0.00	0.00	0.00	1.2	E
11/5/2024 15:39:00	11.4	9.5	0.0	0.00	0.00	0.00	1.2	E
11/5/2024 15:40:00	11.2	9.4	0.0	0.00	0.00	0.00	1.2	SSE
11/5/2024 15:41:00	10.7	9.3	0.0	0.00	0.00	0.00	1.2	SSE
11/5/2024 15:42:00	10.5	9.2	0.0	0.00	0.00	0.00	1.2	SSE
11/5/2024 15:43:00	10.4	9.1	0.0	0.00	0.00	0.00	1.2	SE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/5/2024 15:44:00	10.4	8.3	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:45:00	9.6	8.2	0.0	0.00	0.00	0.00	1.2	SSE
11/5/2024 15:46:00	9.4	8.1	0.0	0.00	0.00	0.00	1.1	SSW
11/5/2024 15:47:00	9.3	8.0	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:48:00	8.9	8.0	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:49:00	8.2	8.0	0.0	0.00	0.00	0.00	1.1	SE
11/5/2024 15:50:00	7.7	7.8	0.1	0.00	0.00	0.00	1.1	SE
11/5/2024 15:51:00	7.5	7.4	0.0	0.00	0.00	0.00	1.1	ESE
11/5/2024 15:52:00	7.5	7.0	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:53:00	7.5	6.7	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:54:00	7.7	6.7	0.0	0.00	0.00	0.00	1.2	ESE
11/5/2024 15:55:00	7.6	7.4	0.0	0.00	0.00	0.00	1.2	SE
11/5/2024 15:56:00	7.8	8.4	0.6	0.00	0.00	0.00	1.1	ESE
11/5/2024 15:57:00	7.8	8.5	0.6	0.00	0.00	0.00	1.1	ESE
11/5/2024 15:58:00	7.8	8.5	0.7	0.00	0.00	0.00	1.1	SE
11/5/2024 15:59:00	7.8	8.5	0.7	0.00	0.00	0.00	1.1	ESE
11/5/2024 16:00:00	8.1	8.7	0.7	0.00	0.00	0.00	1.1	SE
11/5/2024 16:01:00	8.2	8.9	0.7	0.00	0.00	0.00	1.1	SE
11/5/2024 16:02:00	8.2	9.0	0.8	0.00	0.00	0.00	1.1	ESE
11/5/2024 16:03:00	8.3	9.0	0.6	0.00	0.00	0.00	1.0	SE
11/5/2024 16:04:00	8.6	9.0	0.4	0.00	0.00	0.00	1.0	SE
11/5/2024 16:05:00	9.3	9.0	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 16:06:00	9.9	9.0	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 16:07:00	9.9	8.8	0.0	0.00	0.00	0.00	1.0	SSE
11/5/2024 16:08:00	9.8	8.7	0.0	0.00	0.00	0.00	0.9	SE
11/5/2024 16:09:00	9.5	8.6	0.0	0.00	0.00	0.00	0.9	SE
11/5/2024 16:10:00	9.4	7.9	0.0	0.00	0.00	0.00	0.8	ESE
11/5/2024 16:11:00	9.2	6.8	0.0	0.00	0.00	0.00	0.8	SE

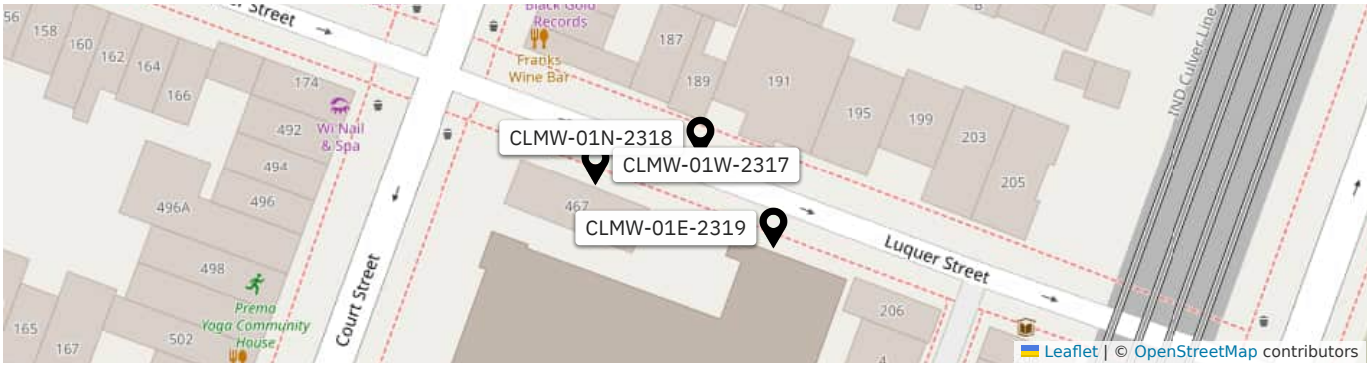
Date/Time	CLMW-04S-2317 PM10 µg/m³	CLMW-04S-2317 VOC ppm	CLMW-04W-2318 PM10 µg/m³	CLMW-04W-2318 VOC ppm	CLMW-04N-2319 PM10 µg/m³	CLMW-04N-2319 VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
5/11/2024 09:15	23.4	0.09	24.2	0.06			SSW	1.3	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC)
5/11/2024 09:30	22.5	0.08	28.0	0.09	38.6	0.10	SSW	1.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 09:45	20.0	0.06	26.8	0.06	21.7	0.09	SSW	1.8	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 10:00	19.2	0.05	18.4	0.04	17.7	0.04	SSW	2.3	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 10:15	17.8	0.07	17.8	0.06	17.0	0.06	SSW	1.7	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 10:30	15.7	0.08	15.7	0.07	14.6	0.05	S	2.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 10:45	11.2	0.09	11.5	0.07	10.8	0.07	SSW	2.5	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 11:00	8.7	0.08	8.4	0.07	7.4	0.07	S	2.1	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 11:15	14.2	0.11	10.4	0.09	10.1	0.08	SE	0.2	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 11:30	12.5	0.08	9.4	0.06	9.2	0.06	SSE	1.8	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 11:45	17.0	0.10	11.3	0.08	7.9	0.04	E	0.7	CLMW-04N-2319 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04S-2317 (PM10; VOC)
5/11/2024 12:00	6.2	0.07	7.5	0.07	6.3	0.06	S	1.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 12:15	6.4	0.03	7.1	0.03	6.5	0.02	S	1.9	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 12:30	6.7	0.05	6.8	0.04	6.5	0.03	SSW	1.8	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 12:45	10.7	0.03	8.7	0.04	8.7	0.04	SSE	1.8	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)

Date/Time	CLMW-04S-2317 PM10 µg/m³	CLMW-04S-2317 VOC ppm	CLMW-04W-2318 PM10 µg/m³	CLMW-04W-2318 VOC ppm	CLMW-04N-2319 PM10 µg/m³	CLMW-04N-2319 VOC ppm	WD Cardinal (Avg Over Period)	Wind Speed (Avg Over Period)	Upwind (determined from avg period)	Downwind (determined from avg period)
5/11/2024 13:00	13.6	0.01	9.2	0.02	8.6	0.01	SSE	2.0	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 13:15	12.7	0.02	10.1	0.02	11.2	0.02	SSE	2.2	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 13:30	13.8	0.08	9.8	0.09	9.6	0.08	SSE	1.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 13:45	11.3	0.01	10.4	0.02	9.0	0.00	S	1.7	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 14:00	9.5	0.01	8.6	0.01	8.1	0.00	S	2.0	CLMW-04S-2317 (PM10; VOC)	CLMW-04N-2319 (PM10; VOC); CLMW-04W-2318 (PM10; VOC)
5/11/2024 14:15	9.2	0.00	8.1	0.00	8.0	0.00	SE	0.5	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 14:30	9.1	0.00	7.2	0.02	5.8	0.01	SSE	1.1	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 14:45	6.9	0.00	5.9	0.01	5.4	0.00	SSE	0.9	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 15:00	6.6	0.00	5.4	0.00	5.3	0.00	SSE	1.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 15:15	7.9	0.00	6.0	0.00	5.9	0.00	SSE	1.4	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 15:30	12.7	0.00	6.7	0.00	7.3	0.00	SE	1.1	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 15:45	10.7	0.00	6.0	0.00	7.0	0.00	SE	1.2	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)
5/11/2024 16:00	8.1	0.00	7.0	0.00	7.9	0.00	SE	1.1	CLMW-04S-2317 (PM10; VOC)	CLMW-04W-2318 (PM10; VOC); CLMW-04N-2319 (PM10; VOC)

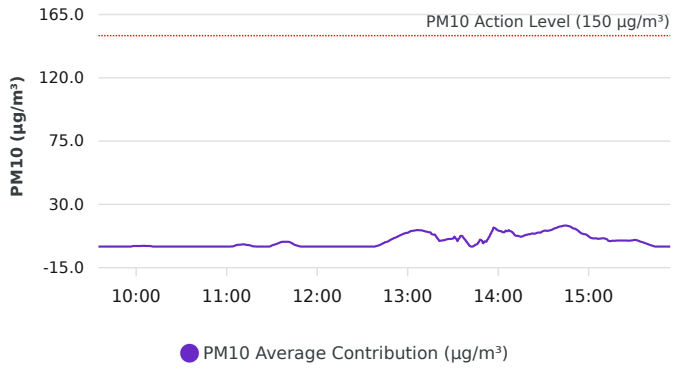
	Air Monitoring Report	Luquer Street Brooklyn	
		Report Period	
		From:	11/6/2024 08:00
		To:	11/6/2024 17:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
11/6/2024	67.5-78.1	55.4-78.9	29.9-30.1	0.7-6	WNW

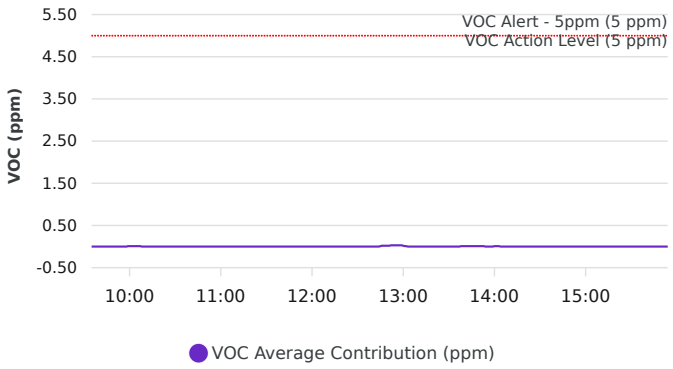
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 11/6/2024	0.0	09:35	0.00	09:35
Max Contribution (15 min avg.) - 11/6/2024	15.0	14:45	0.03	12:52



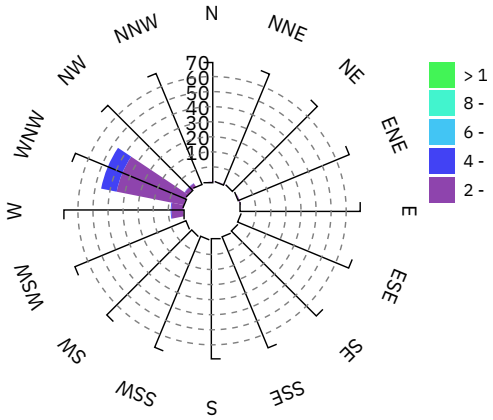
PM10 Average Contribution (µg/m³)



VOC Average Contribution (ppm)



Contribution wind rose (mph)



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 09:35:00	6.4	5.2	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 09:36:00	6.0	5.4	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:37:00	6.3	5.7	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 09:38:00	6.2	5.6	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 09:39:00	6.1	5.5	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 09:40:00	6.1	5.5	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 09:41:00	6.0	5.4	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 09:42:00	6.1	5.4	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 09:43:00	6.1	5.4	0.0	0.00	0.00	0.00	2.9	W
11/6/2024 09:44:00	6.1	5.4	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 09:45:00	6.0	5.3	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:46:00	6.0	5.4	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:47:00	6.0	5.3	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:48:00	6.0	5.3	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:49:00	6.1	5.3	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 09:50:00	6.1	5.3	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:51:00	6.2	5.4	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:52:00	6.2	5.4	0.0	0.00	0.00	0.00	2.8	NW
11/6/2024 09:53:00	6.2	5.5	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 09:54:00	6.3	5.5	0.0	0.00	0.00	0.00	2.7	WNW
11/6/2024 09:55:00	6.3	5.5	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 09:56:00	6.3	5.8	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 09:57:00	6.2	6.3	0.1	0.00	0.00	0.00	3.0	NW
11/6/2024 09:58:00	6.2	6.6	0.4	0.00	0.01	0.00	3.2	WNW
11/6/2024 09:59:00	6.3	6.7	0.4	0.00	0.01	0.01	3.4	WNW
11/6/2024 10:00:00	6.3	6.7	0.4	0.00	0.01	0.01	3.5	WNW
11/6/2024 10:01:00	6.3	6.6	0.4	0.00	0.01	0.01	3.5	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 10:02:00	6.4	6.8	0.4	0.00	0.01	0.01	3.7	WNW
11/6/2024 10:03:00	6.4	6.8	0.4	0.00	0.01	0.01	3.8	W
11/6/2024 10:04:00	6.3	6.8	0.5	0.00	0.01	0.01	3.9	WNW
11/6/2024 10:05:00	6.3	6.8	0.5	0.00	0.01	0.01	3.8	WNW
11/6/2024 10:06:00	6.2	6.7	0.5	0.00	0.01	0.01	3.8	WNW
11/6/2024 10:07:00	6.2	6.6	0.4	0.00	0.01	0.01	3.7	WNW
11/6/2024 10:08:00	6.2	6.5	0.4	0.00	0.00	0.00	3.7	WNW
11/6/2024 10:09:00	6.1	6.5	0.4	0.00	0.00	0.00	3.8	WNW
11/6/2024 10:10:00	6.1	6.4	0.3	0.00	0.00	0.00	3.7	WNW
11/6/2024 10:11:00	6.1	6.1	0.0	0.00	0.00	0.00	3.7	WNW
11/6/2024 10:12:00	6.1	5.6	0.0	0.00	0.00	0.00	3.6	WNW
11/6/2024 10:13:00	6.0	5.2	0.0	0.00	0.00	0.00	3.4	WNW
11/6/2024 10:14:00	5.9	5.2	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:15:00	5.9	5.2	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:16:00	5.9	5.1	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:17:00	5.8	5.0	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:18:00	5.8	4.9	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:19:00	5.7	4.9	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:20:00	5.7	4.8	0.0	0.00	0.00	0.00	3.1	W
11/6/2024 10:21:00	5.7	4.8	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:22:00	5.7	4.8	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:23:00	5.7	4.8	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:24:00	5.7	4.8	0.0	0.00	0.00	0.00	3.0	W
11/6/2024 10:25:00	5.8	4.8	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 10:26:00	5.8	4.9	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 10:27:00	5.9	5.0	0.0	0.00	0.00	0.00	2.7	WNW
11/6/2024 10:28:00	6.0	5.0	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 10:29:00	6.0	5.0	0.0	0.00	0.00	0.00	2.6	W

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 10:30:00	6.1	5.1	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 10:31:00	6.2	5.2	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 10:32:00	6.3	5.3	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 10:33:00	6.5	5.4	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 10:34:00	6.6	5.5	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 10:35:00	6.6	5.6	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 10:36:00	6.7	5.7	0.0	0.00	0.00	0.00	2.8	WNW
11/6/2024 10:37:00	6.7	5.7	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 10:38:00	6.8	5.7	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 10:39:00	6.8	5.8	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 10:40:00	6.8	5.8	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:41:00	6.8	5.8	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:42:00	6.8	5.8	0.0	0.00	0.00	0.00	3.3	W
11/6/2024 10:43:00	6.9	5.8	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:44:00	6.9	5.8	0.0	0.00	0.00	0.00	3.4	WNW
11/6/2024 10:45:00	6.9	5.8	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:46:00	6.9	5.8	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 10:47:00	6.8	5.8	0.0	0.00	0.00	0.00	3.4	WNW
11/6/2024 10:48:00	6.7	5.7	0.0	0.00	0.00	0.00	3.2	W
11/6/2024 10:49:00	6.7	5.7	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:50:00	6.7	5.6	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 10:51:00	6.6	5.6	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 10:52:00	6.6	5.6	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 10:53:00	6.6	5.6	0.0	0.00	0.00	0.00	2.9	WNW
11/6/2024 10:54:00	6.6	5.6	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 10:55:00	6.9	5.7	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:56:00	7.1	5.7	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 10:57:00	7.1	5.8	0.0	0.00	0.00	0.00	3.2	W

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 10:58:00	7.1	6.1	0.0	0.00	0.00	0.00	3.1	W
11/6/2024 10:59:00	7.1	6.2	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 11:00:00	7.0	6.2	0.0	0.00	0.00	0.00	3.1	W
11/6/2024 11:01:00	7.0	6.5	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 11:02:00	7.1	6.9	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 11:03:00	7.3	7.3	0.1	0.00	0.00	0.00	3.1	WNW
11/6/2024 11:04:00	7.4	7.4	0.1	0.00	0.00	0.00	3.0	WNW
11/6/2024 11:05:00	7.4	7.8	0.4	0.00	0.00	0.00	2.8	W
11/6/2024 11:06:00	7.5	8.4	0.9	0.00	0.00	0.00	2.7	WNW
11/6/2024 11:07:00	7.6	8.9	1.2	0.00	0.00	0.00	2.7	WNW
11/6/2024 11:08:00	7.7	9.0	1.3	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:09:00	7.7	9.0	1.3	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:10:00	7.4	8.9	1.5	0.00	0.00	0.00	2.2	NW
11/6/2024 11:11:00	7.2	8.8	1.6	0.00	0.00	0.00	2.1	WNW
11/6/2024 11:12:00	7.2	8.7	1.5	0.00	0.00	0.00	2.1	WNW
11/6/2024 11:13:00	7.2	8.4	1.2	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:14:00	7.2	8.3	1.1	0.00	0.00	0.00	2.4	WNW
11/6/2024 11:15:00	7.3	8.4	1.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:16:00	7.4	8.1	0.7	0.00	0.00	0.00	2.6	NW
11/6/2024 11:17:00	7.3	7.6	0.3	0.00	0.00	0.00	2.6	WNW
11/6/2024 11:18:00	7.1	7.2	0.1	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:19:00	7.0	7.1	0.1	0.00	0.00	0.00	2.4	WNW
11/6/2024 11:20:00	7.0	6.7	0.0	0.00	0.00	0.00	2.5	NW
11/6/2024 11:21:00	7.0	6.2	0.0	0.00	0.00	0.00	2.5	NW
11/6/2024 11:22:00	6.9	5.7	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:23:00	6.9	5.7	0.0	0.00	0.00	0.00	2.4	WNW
11/6/2024 11:24:00	7.0	5.7	0.0	0.00	0.00	0.00	2.4	WNW
11/6/2024 11:25:00	7.1	5.8	0.0	0.00	0.00	0.00	2.4	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 11:26:00	7.2	5.9	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 11:27:00	7.3	6.2	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 11:28:00	7.3	6.8	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:29:00	7.3	7.5	0.2	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:30:00	7.3	8.2	0.8	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:31:00	7.4	8.6	1.2	0.00	0.00	0.00	2.2	WNW
11/6/2024 11:32:00	7.4	9.0	1.5	0.00	0.00	0.00	2.1	WNW
11/6/2024 11:33:00	7.5	9.3	1.8	0.00	0.00	0.00	2.1	WNW
11/6/2024 11:34:00	7.5	9.8	2.3	0.00	0.00	0.00	2.0	W
11/6/2024 11:35:00	7.6	10.3	2.7	0.00	0.00	0.00	2.0	WNW
11/6/2024 11:36:00	7.6	10.8	3.2	0.00	0.00	0.00	2.1	WNW
11/6/2024 11:37:00	7.6	11.0	3.4	0.00	0.00	0.00	2.2	WNW
11/6/2024 11:38:00	7.6	11.0	3.4	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:39:00	7.6	11.0	3.4	0.00	0.00	0.00	2.2	WNW
11/6/2024 11:40:00	7.6	11.0	3.4	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:41:00	7.6	11.0	3.4	0.00	0.00	0.00	2.2	WNW
11/6/2024 11:42:00	7.6	10.8	3.1	0.00	0.00	0.00	2.3	WNW
11/6/2024 11:43:00	7.6	10.2	2.5	0.00	0.00	0.00	2.4	NW
11/6/2024 11:44:00	7.6	9.6	1.9	0.00	0.00	0.00	2.4	WNW
11/6/2024 11:45:00	7.6	8.9	1.3	0.00	0.00	0.00	2.4	W
11/6/2024 11:46:00	7.6	8.5	0.9	0.00	0.00	0.00	2.5	WNW
11/6/2024 11:47:00	7.5	8.1	0.6	0.00	0.00	0.00	2.6	WNW
11/6/2024 11:48:00	7.5	7.8	0.3	0.00	0.00	0.00	2.9	WNW
11/6/2024 11:49:00	7.6	7.3	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 11:50:00	7.6	6.9	0.0	0.00	0.00	0.00	3.1	NW
11/6/2024 11:51:00	7.6	6.4	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 11:52:00	7.5	6.2	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 11:53:00	7.5	6.2	0.0	0.00	0.00	0.00	3.1	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 11:54:00	7.6	6.3	0.0	0.00	0.00	0.00	3.2	WNW
11/6/2024 11:55:00	7.6	6.3	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 11:56:00	7.6	6.3	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 11:57:00	7.5	6.2	0.0	0.00	0.00	0.00	3.4	WNW
11/6/2024 11:58:00	7.5	6.2	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 11:59:00	7.5	6.1	0.0	0.00	0.00	0.00	3.4	WNW
11/6/2024 12:00:00	7.5	6.1	0.0	0.00	0.00	0.00	3.5	WNW
11/6/2024 12:01:00	7.5	6.1	0.0	0.00	0.00	0.00	3.6	WNW
11/6/2024 12:02:00	7.5	6.0	0.0	0.00	0.00	0.00	3.7	WNW
11/6/2024 12:03:00	7.5	6.0	0.0	0.00	0.00	0.00	3.6	WNW
11/6/2024 12:04:00	7.5	6.0	0.0	0.00	0.00	0.00	3.6	WNW
11/6/2024 12:05:00	7.4	5.9	0.0	0.00	0.00	0.00	3.8	WNW
11/6/2024 12:06:00	7.4	5.9	0.0	0.00	0.00	0.00	3.9	WNW
11/6/2024 12:07:00	7.4	5.8	0.0	0.00	0.00	0.00	4.0	WNW
11/6/2024 12:08:00	7.3	5.8	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:09:00	7.2	5.6	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:10:00	7.0	5.5	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:11:00	6.9	5.5	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:12:00	6.9	5.4	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:13:00	6.8	5.4	0.0	0.00	0.00	0.00	4.3	WNW
11/6/2024 12:14:00	6.8	5.5	0.0	0.00	0.00	0.00	4.2	WNW
11/6/2024 12:15:00	6.8	5.5	0.0	0.00	0.00	0.00	4.2	WNW
11/6/2024 12:16:00	6.8	5.5	0.0	0.00	0.00	0.00	4.1	WNW
11/6/2024 12:17:00	6.8	5.6	0.0	0.00	0.00	0.00	3.9	W
11/6/2024 12:18:00	6.8	5.6	0.0	0.00	0.00	0.00	4.0	WNW
11/6/2024 12:19:00	6.7	5.5	0.0	0.00	0.00	0.00	3.8	WNW
11/6/2024 12:20:00	6.7	5.6	0.0	0.00	0.00	0.00	3.6	WNW
11/6/2024 12:21:00	6.7	5.6	0.0	0.00	0.00	0.00	3.5	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 12:22:00	6.7	5.6	0.0	0.00	0.00	0.00	3.5	WNW
11/6/2024 12:23:00	6.8	5.7	0.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 12:24:00	6.8	5.7	0.0	0.00	0.00	0.00	3.2	W
11/6/2024 12:25:00	6.8	5.7	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 12:26:00	6.8	5.7	0.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 12:27:00	6.8	5.7	0.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 12:28:00	6.8	5.6	0.0	0.00	0.00	0.00	2.7	WNW
11/6/2024 12:29:00	6.9	5.7	0.0	0.00	0.00	0.00	2.7	WNW
11/6/2024 12:30:00	7.0	5.7	0.0	0.00	0.00	0.00	2.6	WNW
11/6/2024 12:31:00	7.1	5.7	0.0	0.00	0.00	0.00	2.5	WNW
11/6/2024 12:32:00	7.1	5.7	0.0	0.00	0.00	0.00	2.4	WNW
11/6/2024 12:33:00	7.1	5.9	0.0	0.00	0.00	0.00	2.2	WNW
11/6/2024 12:34:00	7.2	6.1	0.0	0.00	0.00	0.00	2.2	NW
11/6/2024 12:35:00	7.1	6.3	0.0	0.00	0.00	0.00	2.2	W
11/6/2024 12:36:00	7.1	6.5	0.0	0.00	0.00	0.00	2.1	WNW
11/6/2024 12:37:00	7.1	6.9	0.0	0.00	0.00	0.00	2.0	W
11/6/2024 12:38:00	7.2	7.1	0.0	0.00	0.00	0.00	2.0	WNW
11/6/2024 12:39:00	7.2	7.4	0.3	0.00	0.00	0.00	2.0	W
11/6/2024 12:40:00	7.2	7.8	0.6	0.00	0.00	0.00	2.1	WNW
11/6/2024 12:41:00	7.3	8.2	0.9	0.00	0.00	0.00	2.0	W
11/6/2024 12:42:00	7.4	8.8	1.4	0.00	0.00	0.00	2.0	WNW
11/6/2024 12:43:00	7.5	9.4	1.9	0.00	0.00	0.00	2.0	NW
11/6/2024 12:44:00	7.5	10.0	2.5	0.00	0.00	0.00	2.0	WNW
11/6/2024 12:45:00	7.5	10.6	3.1	0.00	0.01	0.01	2.0	WNW
11/6/2024 12:46:00	7.5	10.8	3.3	0.00	0.02	0.02	2.0	NNW
11/6/2024 12:47:00	7.4	11.1	3.7	0.00	0.02	0.02	2.0	NW
11/6/2024 12:48:00	7.5	11.8	4.4	0.00	0.02	0.02	2.0	WNW
11/6/2024 12:49:00	7.5	12.5	5.0	0.00	0.02	0.02	2.0	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 12:50:00	7.6	13.0	5.5	0.00	0.02	0.02	2.0	WNW
11/6/2024 12:51:00	7.6	13.7	6.1	0.00	0.02	0.02	2.0	WNW
11/6/2024 12:52:00	7.7	14.1	6.4	0.00	0.03	0.03	2.1	W
11/6/2024 12:53:00	7.7	14.5	6.9	0.00	0.03	0.03	2.1	WNW
11/6/2024 12:54:00	7.7	15.1	7.5	0.00	0.03	0.03	2.1	W
11/6/2024 12:55:00	7.7	15.7	8.0	0.00	0.03	0.03	2.0	WNW
11/6/2024 12:56:00	7.6	16.1	8.5	0.00	0.03	0.03	2.0	WNW
11/6/2024 12:57:00	7.5	16.5	9.0	0.00	0.03	0.03	2.0	WNW
11/6/2024 12:58:00	7.3	16.7	9.4	0.00	0.03	0.03	1.9	W
11/6/2024 12:59:00	7.2	16.8	9.7	0.00	0.03	0.03	2.0	WNW
11/6/2024 13:00:00	7.1	16.9	9.8	0.00	0.02	0.02	1.9	WNW
11/6/2024 13:01:00	7.0	17.4	10.4	0.00	0.01	0.01	2.0	W
11/6/2024 13:02:00	7.0	18.0	11.0	0.00	0.01	0.01	2.0	WNW
11/6/2024 13:03:00	7.0	18.3	11.2	0.00	0.00	0.00	2.1	WNW
11/6/2024 13:04:00	7.1	18.4	11.3	0.00	0.00	0.00	2.2	WNW
11/6/2024 13:05:00	7.1	18.6	11.5	0.00	0.00	0.00	2.2	W
11/6/2024 13:06:00	7.2	18.8	11.7	0.00	0.00	0.00	2.3	WNW
11/6/2024 13:07:00	7.3	18.9	11.7	0.00	0.00	0.00	2.2	WNW
11/6/2024 13:08:00	7.3	18.9	11.6	0.00	0.00	0.00	2.2	WNW
11/6/2024 13:09:00	7.3	18.9	11.6	0.00	0.00	0.00	2.2	WNW
11/6/2024 13:10:00	7.2	18.6	11.3	0.00	0.00	0.00	2.3	WNW
11/6/2024 13:11:00	7.2	18.3	11.0	0.00	0.00	0.00	2.4	WNW
11/6/2024 13:12:00	7.2	17.9	10.7	0.00	0.00	0.00	2.4	W
11/6/2024 13:13:00	7.3	17.7	10.5	0.00	0.00	0.00	2.5	W
11/6/2024 13:14:00	7.3	17.5	10.2	0.00	0.00	0.00	2.5	WNW
11/6/2024 13:15:00	7.3	17.4	10.1	0.00	0.00	0.00	2.4	WNW
11/6/2024 13:16:00	8.0	16.8	8.8	0.00	0.00	0.00	2.2	ENE
11/6/2024 13:17:00	8.0	16.5	8.5	0.00	0.00	0.00	2.2	N

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 13:18:00	7.9	16.4	8.5	0.00	0.00	0.00	2.0	NE
11/6/2024 13:19:00	8.6	15.5	6.9	0.00	0.00	0.00	1.7	SE
11/6/2024 13:20:00	9.2	14.7	5.5	0.00	0.00	0.00	1.4	ENE
11/6/2024 13:21:00	9.9	13.8	4.0	0.00	0.00	0.00	1.2	SE
11/6/2024 13:22:00	9.7	13.9	4.2	0.00	0.00	0.00	1.0	NNE
11/6/2024 13:23:00	9.6	14.0	4.4	0.00	0.00	0.00	1.0	WNW
11/6/2024 13:24:00	9.5	14.0	4.5	0.00	0.00	0.00	1.0	NW
11/6/2024 13:25:00	9.5	14.3	4.8	0.00	0.00	0.00	0.9	WNW
11/6/2024 13:26:00	9.5	14.7	5.2	0.00	0.00	0.00	0.7	NW
11/6/2024 13:27:00	9.5	14.9	5.4	0.00	0.00	0.00	0.7	NW
11/6/2024 13:28:00	9.5	15.0	5.4	0.00	0.00	0.00	0.7	N
11/6/2024 13:29:00	9.5	15.0	5.5	0.00	0.00	0.00	0.7	NE
11/6/2024 13:30:00	9.5	15.2	5.7	0.00	0.00	0.00	0.7	WNW
11/6/2024 13:31:00	8.8	15.8	7.0	0.00	0.00	0.00	0.8	N
11/6/2024 13:32:00	9.5	15.2	5.7	0.00	0.00	0.00	0.7	ENE
11/6/2024 13:33:00	10.3	14.3	4.0	0.00	0.00	0.00	0.6	S
11/6/2024 13:34:00	9.5	15.2	5.7	0.00	0.00	0.00	0.7	N
11/6/2024 13:35:00	8.9	16.3	7.5	0.00	0.00	0.00	0.7	NNE
11/6/2024 13:36:00	8.8	16.4	7.6	0.00	0.00	0.00	0.9	ENE
11/6/2024 13:37:00	9.3	15.5	6.2	0.00	0.00	0.00	0.8	ESE
11/6/2024 13:38:00	10.0	14.8	4.9	0.00	0.01	0.01	0.8	ENE
11/6/2024 13:39:00	10.6	14.0	3.5	0.00	0.01	0.01	0.8	E
11/6/2024 13:40:00	11.3	13.2	2.0	0.00	0.01	0.01	0.8	SSE
11/6/2024 13:41:00	11.9	12.6	0.6	0.00	0.01	0.01	0.9	E
11/6/2024 13:42:00	13.1	12.0	0.0	0.00	0.01	0.01	1.0	ENE
11/6/2024 13:43:00	13.2	12.7	0.0	0.00	0.01	0.01	0.9	WSW
11/6/2024 13:44:00	13.1	13.7	0.6	0.00	0.01	0.01	0.7	NW
11/6/2024 13:45:00	13.1	14.4	1.3	0.00	0.01	0.01	0.9	N

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 13:46:00	13.1	14.7	1.7	0.00	0.01	0.01	0.7	WNW
11/6/2024 13:47:00	12.5	15.6	3.1	0.00	0.01	0.01	0.6	NNW
11/6/2024 13:48:00	11.6	16.5	4.9	0.00	0.01	0.01	0.7	N
11/6/2024 13:49:00	11.5	15.9	4.4	0.00	0.01	0.01	0.7	NNE
11/6/2024 13:50:00	12.2	14.6	2.4	0.00	0.01	0.01	0.7	NE
11/6/2024 13:51:00	11.5	15.2	3.7	0.00	0.01	0.01	0.8	NNE
11/6/2024 13:52:00	11.9	15.3	3.4	0.00	0.01	0.01	0.8	E
11/6/2024 13:53:00	11.4	16.4	5.1	0.00	0.01	0.01	0.8	WNW
11/6/2024 13:54:00	10.7	17.6	6.9	0.00	0.00	0.00	0.9	N
11/6/2024 13:55:00	10.0	19.0	9.0	0.00	0.00	0.00	1.0	NNE
11/6/2024 13:56:00	9.4	20.6	11.1	0.00	0.00	0.00	1.2	NW
11/6/2024 13:57:00	8.2	21.6	13.5	0.00	0.00	0.00	1.2	W
11/6/2024 13:58:00	8.4	21.5	13.0	0.00	0.00	0.00	1.3	WNW
11/6/2024 13:59:00	8.7	20.8	12.1	0.00	0.00	0.00	1.3	WNW
11/6/2024 14:00:00	8.8	20.2	11.4	0.00	0.01	0.01	1.3	WNW
11/6/2024 14:01:00	8.9	20.1	11.1	0.00	0.01	0.01	1.4	WNW
11/6/2024 14:02:00	9.1	20.0	10.9	0.00	0.01	0.01	1.5	WNW
11/6/2024 14:03:00	9.4	19.7	10.2	0.00	0.01	0.01	1.7	WNW
11/6/2024 14:04:00	9.6	19.8	10.2	0.00	0.00	0.00	1.9	NW
11/6/2024 14:05:00	8.8	20.1	11.3	0.00	0.00	0.00	2.2	WNW
11/6/2024 14:06:00	8.9	19.8	10.9	0.00	0.00	0.00	2.5	W
11/6/2024 14:07:00	8.6	20.2	11.6	0.00	0.00	0.00	2.9	WNW
11/6/2024 14:08:00	8.7	19.7	11.0	0.00	0.00	0.00	3.0	WNW
11/6/2024 14:09:00	8.7	19.2	10.5	0.00	0.00	0.00	3.1	WNW
11/6/2024 14:10:00	8.7	18.2	9.5	0.00	0.00	0.00	3.4	WNW
11/6/2024 14:11:00	8.7	16.8	8.1	0.00	0.00	0.00	3.5	WNW
11/6/2024 14:12:00	8.7	16.4	7.6	0.00	0.00	0.00	3.7	W
11/6/2024 14:13:00	8.4	16.1	7.7	0.00	0.00	0.00	3.7	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 14:14:00	8.2	15.5	7.3	0.00	0.00	0.00	3.7	W
11/6/2024 14:15:00	8.2	15.3	7.0	0.00	0.00	0.00	3.8	WNW
11/6/2024 14:16:00	8.0	15.2	7.2	0.00	0.00	0.00	3.8	W
11/6/2024 14:17:00	7.7	15.5	7.7	0.00	0.00	0.00	3.7	WNW
11/6/2024 14:18:00	7.4	15.6	8.2	0.00	0.00	0.00	3.5	WNW
11/6/2024 14:19:00	7.3	15.7	8.4	0.00	0.00	0.00	3.5	WNW
11/6/2024 14:20:00	7.2	15.9	8.7	0.00	0.00	0.00	3.5	WNW
11/6/2024 14:21:00	7.1	15.9	8.8	0.00	0.00	0.00	3.4	WNW
11/6/2024 14:22:00	6.6	15.8	9.2	0.00	0.00	0.00	3.4	WNW
11/6/2024 14:23:00	6.5	15.8	9.3	0.00	0.00	0.00	3.4	NW
11/6/2024 14:24:00	6.5	15.6	9.1	0.00	0.00	0.00	3.4	WNW
11/6/2024 14:25:00	6.5	16.0	9.4	0.00	0.00	0.00	3.3	WNW
11/6/2024 14:26:00	6.6	16.5	9.9	0.00	0.00	0.00	3.2	W
11/6/2024 14:27:00	6.7	16.7	10.0	0.00	0.00	0.00	3.1	WNW
11/6/2024 14:28:00	6.7	16.6	9.9	0.00	0.00	0.00	3.0	W
11/6/2024 14:29:00	6.7	17.4	10.6	0.00	0.00	0.00	2.9	WNW
11/6/2024 14:30:00	6.9	17.9	11.1	0.00	0.00	0.00	2.7	WNW
11/6/2024 14:31:00	7.0	18.4	11.4	0.00	0.00	0.00	2.8	W
11/6/2024 14:32:00	7.2	18.4	11.2	0.00	0.00	0.00	2.8	W
11/6/2024 14:33:00	7.5	18.6	11.2	0.00	0.00	0.00	2.7	WNW
11/6/2024 14:34:00	7.6	19.1	11.5	0.00	0.00	0.00	2.6	W
11/6/2024 14:35:00	7.7	19.4	11.7	0.00	0.00	0.00	2.6	NW
11/6/2024 14:36:00	7.7	19.9	12.2	0.00	0.00	0.00	2.5	WNW
11/6/2024 14:37:00	7.7	20.5	12.8	0.00	0.00	0.00	2.4	WNW
11/6/2024 14:38:00	7.8	21.0	13.1	0.00	0.00	0.00	2.4	W
11/6/2024 14:39:00	8.0	21.4	13.5	0.00	0.00	0.00	2.4	WNW
11/6/2024 14:40:00	8.0	22.0	14.0	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:41:00	8.0	22.3	14.3	0.00	0.00	0.00	2.3	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 14:42:00	8.0	22.5	14.4	0.00	0.00	0.00	2.2	WNW
11/6/2024 14:43:00	8.1	22.9	14.8	0.00	0.00	0.00	2.2	NW
11/6/2024 14:44:00	8.0	23.0	14.9	0.00	0.00	0.00	2.1	NNW
11/6/2024 14:45:00	8.0	23.0	15.0	0.00	0.00	0.00	2.1	WNW
11/6/2024 14:46:00	8.1	22.8	14.7	0.00	0.00	0.00	2.0	W
11/6/2024 14:47:00	8.1	22.6	14.5	0.00	0.00	0.00	2.1	WNW
11/6/2024 14:48:00	8.0	22.1	14.1	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:49:00	8.0	21.4	13.4	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:50:00	8.1	20.9	12.8	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:51:00	8.2	20.8	12.7	0.00	0.00	0.00	2.3	W
11/6/2024 14:52:00	8.3	20.2	12.0	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:53:00	8.3	19.5	11.3	0.00	0.00	0.00	2.3	WNW
11/6/2024 14:54:00	8.3	18.7	10.3	0.00	0.00	0.00	2.4	WNW
11/6/2024 14:55:00	8.3	17.8	9.5	0.00	0.00	0.00	2.5	WNW
11/6/2024 14:56:00	8.4	17.5	9.1	0.00	0.00	0.00	2.6	WNW
11/6/2024 14:57:00	8.3	17.1	8.8	0.00	0.00	0.00	2.8	WNW
11/6/2024 14:58:00	8.3	17.0	8.7	0.00	0.00	0.00	2.9	WNW
11/6/2024 14:59:00	8.3	16.4	8.1	0.00	0.00	0.00	3.1	WNW
11/6/2024 15:00:00	8.2	15.3	7.2	0.00	0.00	0.00	3.1	WNW
11/6/2024 15:01:00	8.1	14.5	6.4	0.00	0.00	0.00	3.2	WNW
11/6/2024 15:02:00	8.0	14.0	6.0	0.00	0.00	0.00	3.3	WNW
11/6/2024 15:03:00	8.0	13.8	5.8	0.00	0.00	0.00	3.3	WNW
11/6/2024 15:04:00	7.9	13.7	5.8	0.00	0.00	0.00	3.3	WNW
11/6/2024 15:05:00	7.8	13.7	5.9	0.00	0.00	0.00	3.4	WNW
11/6/2024 15:06:00	7.8	13.2	5.5	0.00	0.00	0.00	3.4	W
11/6/2024 15:07:00	7.7	13.3	5.6	0.00	0.00	0.00	3.4	WNW
11/6/2024 15:08:00	7.7	13.5	5.7	0.00	0.00	0.00	3.3	W
11/6/2024 15:09:00	7.8	13.7	5.9	0.00	0.00	0.00	3.3	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 15:10:00	7.7	13.7	5.9	0.00	0.00	0.00	3.2	WNW
11/6/2024 15:11:00	7.7	13.3	5.6	0.00	0.00	0.00	3.2	W
11/6/2024 15:12:00	7.7	12.9	5.2	0.00	0.00	0.00	3.2	W
11/6/2024 15:13:00	7.8	12.1	4.2	0.00	0.00	0.00	3.0	WNW
11/6/2024 15:14:00	8.1	11.8	3.8	0.00	0.00	0.00	3.0	W
11/6/2024 15:15:00	8.1	12.1	4.0	0.00	0.00	0.00	2.9	W
11/6/2024 15:16:00	8.2	12.4	4.2	0.00	0.00	0.00	2.8	WNW
11/6/2024 15:17:00	8.2	12.4	4.1	0.00	0.00	0.00	2.8	WNW
11/6/2024 15:18:00	8.3	12.5	4.2	0.00	0.00	0.00	2.7	WNW
11/6/2024 15:19:00	8.3	12.6	4.3	0.00	0.00	0.00	2.7	WNW
11/6/2024 15:20:00	8.3	12.6	4.3	0.00	0.00	0.00	2.6	WNW
11/6/2024 15:21:00	8.3	12.6	4.3	0.00	0.00	0.00	2.7	W
11/6/2024 15:22:00	8.2	12.5	4.3	0.00	0.00	0.00	2.7	WNW
11/6/2024 15:23:00	8.1	12.4	4.3	0.00	0.00	0.00	2.7	W
11/6/2024 15:24:00	8.0	12.3	4.3	0.00	0.00	0.00	2.8	WNW
11/6/2024 15:25:00	8.0	12.3	4.3	0.00	0.00	0.00	2.7	WNW
11/6/2024 15:26:00	8.0	12.2	4.2	0.00	0.00	0.00	2.7	WNW
11/6/2024 15:27:00	7.9	12.1	4.2	0.00	0.00	0.00	2.6	WNW
11/6/2024 15:28:00	7.7	12.0	4.3	0.00	0.00	0.00	2.6	WSW
11/6/2024 15:29:00	7.5	12.0	4.4	0.00	0.00	0.00	2.5	W
11/6/2024 15:30:00	7.5	12.2	4.7	0.00	0.00	0.00	2.4	WNW
11/6/2024 15:31:00	7.4	12.2	4.7	0.00	0.00	0.00	2.3	W
11/6/2024 15:32:00	7.5	11.9	4.5	0.00	0.00	0.00	2.3	WNW
11/6/2024 15:33:00	7.4	11.5	4.1	0.00	0.00	0.00	2.1	WNW
11/6/2024 15:34:00	7.4	11.0	3.6	0.00	0.00	0.00	2.0	WSW
11/6/2024 15:35:00	7.4	10.7	3.3	0.00	0.00	0.00	2.0	W
11/6/2024 15:36:00	7.4	10.4	3.0	0.00	0.00	0.00	1.9	W
11/6/2024 15:37:00	7.5	10.1	2.6	0.00	0.00	0.00	1.8	W

C Soil Boring and Well Construction Logs

RECORD OF BOREHOLE: SB-01

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: November 06, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Luquer street sidewalk in front of church

DEPTH (ft)	DESCRIPTION	USCS	ELEV. DEPTH (ft)	NUMBER	TYPE	REC %	BLOWS N-VALUE
0			0.3			0	
1–9	(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM				100	
10			10.0			0	
10–19	SAND, fine to coarse, , subrounded to subangular, some fine to coarse subrounded to subangular gravel, some non plastic fines; reddish brown to tan; strong Erratics.				SC	100	
20			20.0				
20–23	(SP) gravelly SAND, fine to coarse, poorly graded, subrounded to subangular, fine to coarse subrounded to subangular gravel, trace non plastic fines; reddish brown; strong Erratics.	SP			SC	86	
24			23.5				
24–25	(SP-SM) SAND, fine, poorly graded, subrounded to subangular, some non plastic fines; light brown; strong Erratics.	SP-SM					

WATER CONTENT: Plastic & Liquid Limits (%); Water Content (%); NP Nonplastic; 0 25 50 75 100 125 150

ADDITIONAL LAB TESTING

GROUNDWATER OBSERVATIONS

ADDITIONAL OBSERVATIONS

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED: CP
DATE: Nov 06, 2024
CHECKED: GM
DATE: Jan. 29, 2025

Draft

RECORD OF BOREHOLE: SB-01

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: November 06, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Luquer street sidewalk in front of church

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS: N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%) / Water Content (%) / NP Nonplastic	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
26			(SP-SM) SAND, fine, poorly graded, subrounded to subangular, some non plastic fines; light brown; strong Erratics.	SP-SM										
27								SC	85					
28														
29														
30						30.0								
31			(SP-SM) gravelly SAND, fine, poorly graded, subrounded to subangular, fine to coarse subrounded to subangular gravel, some non plastic fines; reddish brown; strong Erratics, subrounded to subangular cobbles/boulders.	SP-SM										
32														
33														
34														
35								SC	100					
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														

Draft

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 06, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-01

CLIENT:	NYS DEC	DATE:	November 06, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer street sidewalk in front of church



SB-01 0.00 ft - 0.30 ft



SB-01 10.00 ft - 20.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 06, 2024
DATE:

RECORD OF BOREHOLE: SB-01

CLIENT:	NYS DEC	DATE:	November 06, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer street sidewalk in front of church



SB-01 20.00 ft - 23.50 ft



SB-01 23.50 ft - 30.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 06, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-01

CLIENT:	NYS DEC	DATE:	November 06, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer street sidewalk in front of church



SB-01 30.00 ft - 40.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 06, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-02

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: November 01, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: On Luquer street sidewalk east of church

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%) ⊢ ○ Water Content (%) NP Nonplastic (0 25 50 75 100 125 150)	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
0						0.3			100					
1–4			(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM										
5			(SM) gravelly SILTY SAND, fine to medium, subangular, non plastic fines, fine to coarse rounded to subrounded gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.			5.0		SC	100					
6–9														
10			Gravelly SAND, fine, , subangular, fine to coarse rounded to subrounded gravel, some non plastic fines; reddish brown to grayish white; strong Erratics, rounded to subrounded cobbles/boulders.			10.0		SC	100					
11–12														
13			(ML) gravelly sandy SILT, non plastic, fine subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown to grayish brown; strong Erratics, rounded to subrounded cobbles/boulders.	ML		13.0		SC	100					
14–19														
20			(ML) SILT and SAND, non plastic, and fine subrounded to subangular SAND, some fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.			20.0		SC	100					
21–24														
25														

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE:Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-02

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: November 01, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: On Luquer street sidewalk east of church

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS: N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%) / Water Content (%) / NP Nonplastic (0 25 50 75 100 125 150)	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
26–27			(ML) SILT and SAND, non plastic, and fine subrounded to subangular SAND, some fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.	ML										
28–29			(SM) SILTY SAND, fine, subrounded to subangular, non plastic fines, trace fine to coarse subrounded to subangular gravel; reddish brown to gray; strong Erratics, rounded to subrounded cobbles/boulders.	SM		28.0		SC	100					
30–39			(ML) sandy SILT, non plastic, fine subrounded to subangular sand, some fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	ML		30.0		SC	50					
40–49			(SM) SILTY SAND, fine to medium, subrounded to subangular, non plastic fines, trace fine subrounded to subangular gravel; reddish brown to brown; strong Erratics.	SM		40.0		SC	100					
50														

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE: Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-02

CLIENT:	NYS DEC	DATE:	November 01, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	On Luquer street sidewalk east of church



SB-02 0.00 ft - 0.30 ft



SB-02 5.00 ft - 10.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE:

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-02

CLIENT:	NYS DEC	DATE:	November 01, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	On Luquer street sidewalk east of church



SB-02 10.00 ft - 13.00 ft



SB-02 13.00 ft - 20.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE: Jan. 29, 2025

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-02

CLIENT:	NYS DEC	DATE:	November 01, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	On Luquer street sidewalk east of church



SB-02 20.00 ft - 28.00 ft



SB-02 28.00 ft - 30.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE:

RECORD OF BOREHOLE: SB-02

CLIENT:	NYS DEC	DATE:	November 01, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	**ADT**	HORZ DATUM:	NAD83
				HOLE LOC:	On Luquer street sidewalk east of church



SB-02 30.00 ft - 40.00 ft



SB-02 40.00 ft - 50.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 01, 2024
DATE: Jan. 29, 2025

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-03

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 30, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: NE corner of Court & Luquer St. intersection

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%) ⊢ ○ Water Content (%) NP Nonplastic (0 25 50 75 100 125 150)	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
						0.0			100	0				
1–4			(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM		0.3								
5–9			(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.			5.0		SC	100					
10–19			(ML) gravelly sandy SILT, non plastic, fine to coarse subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.	ML		10.0		SC	100					
20–25			(ML) sandy gravelly SILT, non plastic, fine to coarse subrounded to subangular gravel, fine to coarse subrounded to subangular sand; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.			20.0								

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 30, 2024
DATE:Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-03

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 30, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: NE corner of Court & Luquer St. intersection

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: REC %	SAMPLES: BLOWS N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%) / Water Content (%) / NP Nonplastic (0 25 50 75 100 125 150)	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
26–29			(ML) sandy gravelly SILT, non plastic, fine to coarse subrounded to subangular gravel, fine to coarse subrounded to subangular sand; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.	ML				SC	40					
30–39			(ML) gravelly sandy SILT, non plastic, fine to coarse subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics.			30.0		SC	80					
40–49			Gravelly SAND, fine to coarse, , subrounded to subangular, fine to coarse subrounded to subangular gravel, trace non plastic fines; reddish brown; strong Erratics.			40.0		SC	100					
50														

Draft

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 30, 2024
DATE: Jan 29, 2025

RECORD OF BOREHOLE: SB-03

CLIENT:	NYS DEC	DATE:	October 30, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	**ADT**	HORZ DATUM:	NAD83
				HOLE LOC:	NE corner of Court & Luquer St. intersection



SB-03 0.00 ft - 0.30 ft



SB-03 5.00 ft - 10.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 30, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-03

CLIENT:	NYS DEC	DATE:	October 30, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	NE corner of Court & Luquer St. intersection



SB-03 10.00 ft - 20.00 ft



SB-03 20.00 ft - 30.00 ft

REV:

LOGGED: DATE: Oct 30, 2024

CHECKED: DATE: Jan. 29, 2025

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-04

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: November 05, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Court St. sidewalk in front of church

DEPTH (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	NUMBER	TYPE	REC %	BLOWS N-VALUE
0			0.3			100	
1–4	(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM					
5			5.0		SC	100	
6–9	(SM) gravelly SILTY SAND, fine, subangular, non plastic fines, fine to coarse rounded to subrounded gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.						
10			10.0		SC	75	
11–19	(SM) SILTY SAND, fine, subrounded to subangular, and non plastic fines, some fine to coarse subrounded to subangular gravel; reddish brown to grayish brown; strong Erratics, rounded to subrounded cobbles/ boulders.						
20			20.0		SC	67	
21–25	SAND, fine, , subrounded to subangular, some fine to coarse subrounded to subangular gravel, some non plastic fines; reddish brown to tan; strong Erratics, rounded to subrounded cobbles/boulders.						

WATER CONTENT: Plastic & Liquid Limits (%); Water Content (%); NP Nonplastic; 0 25 50 75 100 125 150

ADDITIONAL LAB TESTING

GROUNDWATER OBSERVATIONS

ADDITIONAL OBSERVATIONS

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE: Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-04

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn
DATE: November 05, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT
COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Court St. sidewalk in front of church

DEPTH (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	NUMBER	TYPE	REC %	BLOWS N-VALUE	WATER CONTENT (Plastic & Liquid Limits (%), Water Content (%), NP Nonplastic; 0 25 50 75 100 125 150)
26	SAND, fine, , subrounded to subangular, some fine to coarse subrounded to subangular gravel, some non plastic fines; reddish brown to tan; strong Erratics, rounded to subrounded cobbles/boulders.							
	(SM) gravelly SILTY SAND, fine, subrounded to subangular, non plastic fines, fine to coarse subrounded to subangular gravel; reddish brown to gray; strong Erratics, rounded to subrounded cobbles/ boulders.	SM	26.0		SC	75		
30	(SM) SILTY SAND, fine, subrounded to subangular, and non plastic fines, some fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.		30.0		SC	100		
38	(SP-SM) gravelly SAND, fine, poorly graded, subrounded to subangular, coarse subrounded to subangular gravel, some non plastic fines; reddish brown and orangish yellow; strong Erratics, rounded to subrounded cobbles/boulders.	SP-SM	38.5		SC	100		
40	(SM) gravelly SILTY SAND, fine, subrounded to subangular, non plastic fines, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.	SM	40.0		SC	100		
42	(SW-SM) SAND, fine to coarse, well graded, subrounded to subangular, some fine subrounded to subangular gravel, some non plastic fines; reddish brown to brown; strong Erratics.	SW-SM	41.5		SC	100		
50								

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE:Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-04

CLIENT:	NYS DEC	DATE:	November 05, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Court St. sidewalk in front of church



SB-04 0.00 ft - 0.30 ft



SB-04 5.00 ft - 10.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-04

CLIENT:	NYS DEC	DATE:	November 05, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Court St. sidewalk in front of church



SB-04 10.00 ft - 20.00 ft



SB-04 20.00 ft - 26.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE: Jan. 29, 2025

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RECORD OF BOREHOLE: SB-04

CLIENT:	NYS DEC	DATE:	November 05, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Court St. sidewalk in front of church



SB-04 26.00 ft - 30.00 ft



SB-04 30.00 ft - 38.50 ft

RECORD OF BOREHOLE: SB-04

CLIENT:	NYS DEC	DATE:	November 05, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Court St. sidewalk in front of church



SB-04 38.50 ft - 40.00 ft



SB-04 40.00 ft - 41.50 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE: Jan. 29, 2025

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-04

CLIENT:	NYS DEC	DATE:	November 05, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Court St. sidewalk in front of church



SB-04 41.50 ft - 50.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Nov 05, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-05

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 31, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Luquer St. on northwest corner of Court St

DEPTH (ft)	DESCRIPTION	USCS	ELEV. DEPTH (ft)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES REC %	SAMPLES BLOWS	SAMPLES N-VALUE
0			0.3					
1–4	(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM						
5			5.0					
5–9	(SM) SILTY SAND, fine to medium, subangular, non plastic fines, some fine rounded to subrounded gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM				100		
10			10.0					
10–11	(SM) SILTY SAND, fine to medium, subangular, non plastic fines, some fine to coarse rounded to subrounded gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM			SC	100		
12			12.0					
12–17	(ML) sandy gravelly SILT, non plastic, fine to coarse subrounded to subangular gravel, fine subrounded to subangular sand; reddish brown to grayish brown; strong Erratics, rounded to subrounded cobbles/boulders.	ML			SC	100		
18			18.0					
18–19	(SM) gravelly SILTY SAND, fine, subrounded to subangular, and non plastic fines, fine to coarse subrounded to subangular gravel; reddish brown to tannish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM			SC	100		
20			20.0					
20–25	(ML) gravelly sandy SILT, non plastic, fine subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	ML						

WATER CONTENT: H Plastic & Liquid Limits (%); ○ Water Content (%); NP Nonplastic; scale 0, 25, 50, 75, 100, 125, 150

SHEAR STRENGTH: × Nat Vane; ⊕ Rem Vane; ■ Pocket Pen Su; ● Q; ○ U; ▲ Torvane; scale 0, .5, 1, 2, 3, 4, 5

ADDITIONAL LAB TESTING

GROUNDWATER OBSERVATIONS

ADDITIONAL OBSERVATIONS

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED:GM

DATE: Oct 31, 2024
DATE:Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-05

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 31, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: Luquer St. on northwest corner of Court St

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS	N-VALUE	WATER CONTENT	SHEAR STRENGTH	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
26–29			(ML) gravelly sandy SILT, non plastic, fine subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.					SC	100							
30			(ML) gravelly sandy SILT, non plastic, fine subrounded to subangular sand, fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	ML		30.0										
31–39								SC	50							
40			SAND, fine to coarse, , subrounded to subangular, some non plastic fines, trace fine subrounded to subangular gravel; reddish brown to brown; strong Erratics.			40.0										
41–49								SC	100							
50																

WATER CONTENT: Plastic & Liquid Limits (%); Water Content (%); NP Nonplastic
SHEAR STRENGTH: Nat Vane; Rem Vane; Pocket Pen Su; Q; U; Torvane

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 31, 2024
DATE: Jan 29, 2025

Draft

RECORD OF BOREHOLE: SB-05

CLIENT:	NYS DEC	DATE:	October 31, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer St. on northwest corner of Court St



SB-05 0.00 ft - 0.30 ft



SB-05 5.00 ft - 10.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 31, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-05

CLIENT:	NYS DEC	DATE:	October 31, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer St. on northwest corner of Court



SB-05 10.00 ft - 12.00 ft



SB-05 12.00 ft - 18.00 ft

REV:

LOGGED:

DATE: Oct 31, 2024

CHECKED:

DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-05

CLIENT:	NYS DEC	DATE:	October 31, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer St. on northwest corner of Court



SB-05 18.00 ft - 20.00 ft



SB-05 20.00 ft - 30.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 31, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-05

CLIENT:	NYS DEC	DATE:	October 31, 2024		
PROJECT:	DEC Gowanus				
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	Luquer St. on northwest corner of Court



SB-05 30.00 ft - 40.00 ft



SB-05 40.00 ft - 50.00 ft

REV:

LOGGED:

DATE: Oct 31, 2024

CHECKED:

DATE:

Photo Core 2 P - Letter / Golder - 3 Imperial US / Golder US Auto (common in US) / 2024-12-12

RECORD OF BOREHOLE: SB-06

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 28, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORDINATES: Lat: 40.677751° Long: -73.998250°
COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: 472 Court

DEPTH (ft)	DESCRIPTION	USCS	ELEV. DEPTH (ft)	SAMPLES NUMBER	SAMPLES TYPE	REC %	BLOWS	N-VALUE
0			0.0					
1–4	(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.	SM	0.3	Surface	D O	100		
5–9	(SM) gravelly SILTY SAND, fine to medium, subangular, fine to coarse rounded to subrounded gravel, non plastic fines; reddish brown; strong Erratics, rounded to subrounded cobbles/boulders.		5.0	03	SC	50		
10–19	(SM) SILTY SAND, fine to coarse, subrounded to subangular, non plastic fines, some fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics, rounded to subrounded cobbles/ boulders.		10.0	04	SC	60		
20–25	(SM) SILTY SAND, fine to coarse, subrounded to subangular, non plastic fines, trace fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics.		20.0					

WATER CONTENT: Plastic & Liquid Limits (%); Water Content (%); NP Nonplastic; 0 25 50 75 100 125 150

SHEAR STRENGTH: Nat Vane; Rem Vane; Pocket Pen Su; Q; U; Torvane; 0 1 2 3 4 5

ADDITIONAL LAB TESTING

GROUNDWATER OBSERVATIONS

ADDITIONAL OBSERVATIONS

Continued on Next Page

HAMMER TYPE:

REV:

LOGGED:
CHECKED:

DATE: Oct 28, 2024
DATE: Jan. 29, 2025

Draft

RECORD OF BOREHOLE: SB-06

CLIENT: NYS DEC
PROJECT: Court & Luquer St
PROJECT NO: EEA1705007.6488
LOCATION: Brooklyn

DATE: October 28, 2024
INCLINATION: 90.0°
CONTRACTOR: ADT

COORDINATES: Lat: 40.677751° Long: -73.998250°
COORD SYS: UTM Zone 18N
HORZ DATUM: NAD83
HOLE LOC: 472 Court

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	REC %	BLOWS	N-VALUE	WATER CONTENT: Plastic & Liquid Limits (%), Water Content (%), NP Nonplastic	SHEAR STRENGTH: Nat Vane, Rem Vane, Pocket Pen Su, Q, U, Torvane	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	ADDITIONAL OBSERVATIONS
26–29			(SM) SILTY SAND, fine to coarse, subrounded to subangular, non plastic fines, trace fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics.	SM			05	SC	60							
30–39			(SM) SILTY SAND, fine to coarse, subrounded to subangular, non plastic fines, trace fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics.			30.0		SC	100							
40–50			(SM) SILTY SAND, fine to coarse, subrounded to subangular, non plastic fines, trace fine to coarse subrounded to subangular gravel; reddish brown; strong Erratics.			40.0		SC	100							

Draft

HAMMER TYPE:

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 28, 2024
DATE: Jan 29, 2025

RECORD OF BOREHOLE: SB-06

CLIENT:	NYS DEC	DATE:	October 28, 2024		
PROJECT:	DEC Gowanus			COORDINATES:	Lat: 40.677751° Long: -73.998250°
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	472 Court



SB-06 5.00 ft - 10.00 ft



SB-06 10.00 ft - 20.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 28, 2024
DATE: Jan. 29, 2025

RECORD OF BOREHOLE: SB-06

CLIENT:	NYS DEC	DATE:	October 28, 2024		
PROJECT:	DEC Gowanus			COORDINATES:	Lat: 40.677751° Long: -73.998250°
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	**ADT**	HORZ DATUM:	NAD83
				HOLE LOC:	472 Court



SB-06 20.00 ft - 30.00 ft



SB-06 30.00 ft - 40.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 28, 2024
DATE:

RECORD OF BOREHOLE: SB-06

CLIENT:	NYS DEC	DATE:	October 28, 2024		
PROJECT:	DEC Gowanus			COORDINATES:	Lat: 40.677751° Long: -73.998250°
PROJECT NO:	EEA1705007.6488	INCLINATION:	90.0°	COORD SYS:	UTM Zone 18N
LOCATION:	Brooklyn	CONTRACTOR:	ADT	HORZ DATUM:	NAD83
				HOLE LOC:	472 Court



SB-06 40.00 ft - 50.00 ft

REV:

LOGGED: CP
CHECKED: GM

DATE: Oct 28, 2024
DATE: Jan. 29, 2025

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
11/6/2024 15:38:00	7.7	9.9	2.2	0.00	0.00	0.00	1.7	W
11/6/2024 15:39:00	7.8	9.7	1.8	0.00	0.00	0.00	1.6	W
11/6/2024 15:40:00	8.0	9.4	1.4	0.00	0.00	0.00	1.5	WNW
11/6/2024 15:41:00	8.1	9.1	1.0	0.00	0.00	0.00	1.5	W
11/6/2024 15:42:00	8.1	8.8	0.7	0.00	0.00	0.00	1.5	WNW
11/6/2024 15:43:00	8.1	8.5	0.3	0.00	0.00	0.00	1.6	WNW
11/6/2024 15:44:00	8.2	8.1	0.0	0.00	0.00	0.00	1.6	WNW
11/6/2024 15:45:00	8.4	7.4	0.0	0.00	0.00	0.00	1.6	W
11/6/2024 15:46:00	8.6	6.9	0.0	0.00	0.00	0.00	1.8	WNW
11/6/2024 15:47:00	8.6	6.8	0.0	0.00	0.00	0.00	1.9	WNW
11/6/2024 15:48:00	8.5	6.7	0.0	0.00	0.00	0.00	2.0	WNW
11/6/2024 15:49:00	8.5	6.7	0.0	0.00	0.00	0.00	2.1	W
11/6/2024 15:50:00	8.7	6.6	0.0	0.00	0.00	0.00	2.0	W
11/6/2024 15:51:00	8.8	6.4	0.0	0.00	0.00	0.00	2.1	WNW
11/6/2024 15:52:00	8.8	6.2	0.0	0.00	0.00	0.00	2.1	WNW
11/6/2024 15:53:00	8.7	6.0	0.0	0.00	0.00	0.00	2.2	WNW
11/6/2024 15:54:00	8.6	5.9	0.0	0.00	0.00	0.00	2.4	WNW

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Groundwater Purge and Sampling Logs

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-01S
Project No:	US-WSP-EEA1705007.6488	Date:	11/11/2024
Well Developed by:	Gregory Mayer		
Intial Depth to Water:	31.46 ft	Well Diameter:	2.0 in
Total Well Depth:	34.00 ft	1x well Volume:	0.41 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	2.84L/min	Depth to Pump:	32.5
Purge Start Time:	15:00	Purge End Time:	16:00

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
15:00	0	9.25	0.585	18.31	>1K
15:07	5	9.15	0.500	18.18	>1K
15:12	10	9.11	0.515	18.07	>1K
12:20	15	9.08	0.518	18.05	>1K
15:28	20	9.02	0.518	17.98	>1K
15:35	25	8.97	0.525	17.92	>1K
15:43	30	8.89	0.528	17.85	>1K
15:48	35	8.84	0.530	17.87	>1K
15:55	40	8.81	0.536	17.86	>1K
16:00	45	8.80	0.538	17.85	>1K

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-02I
Project No:	US-WSP-EEA1705007.6488	Date:	11/8/2024
Well Developed by:	Chuck Porreca & Rony John		

Intial Depth to Water:	34.08 ft.	Well Diameter:	2.0 in
Total Well Depth:	52.3 ft.	1x well Volume:	2.97 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	4.4L/min	Depth to Pump:	37 ft
Purge Start Time:	11:27	Purge End Time:	12:15

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
11:27	0	7.14	0.812	16.06	>1K
11:32	15	7.57	0.760	16.41	240
11:37	20	7.33	0.719	16.44	>1K
11:42	25	7.6	0.766	16.53	732
11:48	30	7.61	0.785	16.78	992
11:53	35	7.62	0.811	16.72	>1K
11:58	40	7.59	0.834	16.73	268
12:03	45	7.55	0.846	16.75	210
12:09	50	7.57	0.866	16.74	263
12:15	55	7.55	0.867	16.73	755

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-02S
Project No:	US-WSP-EEA1705007.6488	Date:	11/11/2024
Well Developed by:	Gregory Mayer		
Intial Depth to Water:	33.68 ft	Well Diameter:	2.0 in
Total Well Depth:	35.42 ft	1x well Volume:	0.28 gal
Purge Method:	Surge and Purge	Pump Bladder:	Bailer
Pump Rate:	295 ml/min	Depth to Pump:	34.5 ft
Purge Start Time:	10:30	Purge End Time:	12:00

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
10:30	1.0	6.25	0.284	18.00	>1K
10:40	2.0	6.87	0.280	17.80	>1K
10:50	2.5	7.25	0.259	17.72	>1K
11:00	3.0	7.65	0.249	17.61	>1K
11:10	4.0	9.01	0.265	17.50	>1K
11:20	5.0	9.17	0.270	17.37	>1K
11:30	5.5	9.33	0.275	17.48	>1K
11:40	6.0	9.52	0.289	17.57	>1K
11:50	6.5	9.56	0.301	17.52	>1K
12:00	7.0	9.65	0.315	17.50	>1K

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-03I
Project No:	US-WSP-EEA1705007.6488	Date:	11/8/2024
Well Developed by:	Chuck Porreca & Rony John		
Intial Depth to Water:	35.36 ft	Well Diameter:	2.0 in
Total Well Depth:	46.16 ft	1x well Volume:	1.76 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	2L/min	Depth to Pump:	38 ft
Purge Start Time:	14:40	Purge End Time:	16:26

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
14:40	0	7.71	1.950	20.54	<1K
14:45	5	7.20	2.710	19.31	<1K
14:51	10	6.98	6.640	18.22	<1K
15:00	15	6.97	2.520	17.90	<1K
15:16	20	7.02	2.540	17.82	<1K
15:24	25	6.87	2.470	17.49	331
15:32	30	6.85	0.050	17.55	770
15:44	35	7.30	2.350	17.60	341
16:02	40	7.07	2.380	17.85	<1K
16:15	45	7.06	2.380	17.24	<1K
16:21	50	6.95	2.320	17.12	<1K
16:26	55	7.05	2.310	16.84	<1K

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-03S
Project No:	US-WSP-EEA1705007.6488	Date:	11/8/2024
Well Developed by:	Chuck Porreca & Rony John		

Intial Depth to Water:	31.56	Well Diameter:	2.0 in
Total Well Depth:	31.6	1x well Volume:	NA
Purge Method:	Purge and Surge	Pump Bladder:	Bailer
Pump Rate:	200 ml/min	Depth to Pump:	NA
Purge Start Time:	NA	Purge End Time:	NA

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
Attempted to develop well with whale pump and bailer. Monitoring well was dry and unable to develop					

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-04I
Project No:	US-WSP-EEA1705007.6488	Date:	11/11/2024
Well Developed by:	Rony John		
Intial Depth to Water:	32.73 ft	Well Diameter:	2.0 in
Total Well Depth:	53.25 ft	1x well Volume:	3.35 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	2.5L/min	Depth to Pump:	35.50 ft
Purge Start Time:	14:05	Purge End Time:	15:16

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
14:05	0	7.81	0.489	21.27	31.0
14:25	0	7.56	2.800	18.55	19.5
14:30	5	7.48	3.010	17.44	73.9
14:35	10	7.50	2.740	17.10	9.1
14:40	15	7.77	2.890	16.69	0.0
14:46	20	7.51	6.620	16.73	0.0
14:52	25	7.47	2.570	16.71	70.0
14:56	30	7.44	2.700	16.68	35.2
15:01	35	7.52	2.390	16.67	113.0
15:06	40	7.46	2.450	16.65	125.0
15:10	45	7.43	2.460	16.60	16.6
15:16	50	7.44	2.450	16.73	114.0

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-04S
Project No:	US-WSP-EEA1705007.6488	Date:	11/11/2024
Well Developed by:	Chuck Porreca & Rony John		
Intial Depth to Water:	32.6	Well Diameter:	2.0 in
Total Well Depth:	37.15	1x well Volume:	0.74
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	1.32 L/min	Depth to Pump:	34.5
Purge Start Time:	11:05	Purge End Time:	12:37

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
11:05	0	6.10	1.600	16.94	>1K
11:30	5	6.32	4.470	16.68	455
11:45	10	6.74	5.620	16.87	403
12:00	15	6.83	7.790	16.76	826
12:15	20	6.83	7.970	17.33	>1k
12:25	25	6.97	8.990	16.85	188
12:37	30	6.88	9.440	17.04	116

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-05I
Project No:	US-WSP-EEA1705007.6488	Date:	11/11/2024
Well Developed by:	Gregory Mayer		
Intial Depth to Water:	35.04 ft	Well Diameter:	2.0 in
Total Well Depth:	51.00 ft	1x well Volume:	2.60 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	2.46L/min	Depth to Pump:	38.00 ft
Purge Start Time:	11:00	Purge End Time:	12:17

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
11:00	0	7.25	0.489	17.8	>1K
11:10	10	7.08	0.441	16.83	471
11:17	15	7.72	0.495	16.29	153
11:25	20	7.78	0.501	16.29	168
11:30	25	7.72	0.495	16.29	178
11:40	30	7.88	0.505	16.32	68.1
11:48	35	8.09	0.502	17.39	78.3
12:01	40	8.02	0.504	17.18	72.4
12:09	45	8.04	0.498	17.22	68.3
12:17	50	7.99	0.489	16.95	71.6

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-02I
Project No:	US-WSP-EEA1705007.6488	Date:	11/12/2024
Well Developed by:	Gregory Mayer		
Intial Depth to Water:	34.05 ft	Well Diameter:	2.0 in
Total Well Depth:	37.5 ft	1x well Volume:	0.56 gal
Purge Method:	Surge and Purge	Pump Bladder:	Bailer
Pump Rate:	360mL/min	Depth to Pump:	35.75 ft
Purge Start Time:	12:40	Purge End Time:	14:48

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
12:40	0	8.30	0.440	17.10	>1K
12:50	1	8.45	0.460	17.39	>1K
13:05	2	8.31	0.515	16.99	>1K
13:18	3	8.10	0.585	16.87	>1K
13:31	4	8.11	0.621	16.80	>1K
13:42	5	8.14	0.689	16.59	>1K
13:49	6	8.15	0.782	16.44	>1K
13:59	7	8.10	0.810	16.39	>1K
14:07	8	7.80	0.818	16.31	>1K
14:16	9	7.62	0.831	16.20	>1K
14:28	10	7.50	1.250	15.70	>1K
14:40	12	7.32	1.550	15.27	>1K
14:58	15	7.26	1.820	14.86	>1K

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Well Development Record

Site Name/Location:	Court & Luquer St Source Area Trackdown, Brooklyn, NY	Well ID:	CLMW-006
Project No:	US-WSP-EEA1705007.6488	Date:	11/12/2024
Well Developed by:	Rony John		
Intial Depth to Water:	36.80 ft	Well Diameter:	2.0 in
Total Well Depth:	47.26 ft	1x well Volume:	1.70 gal
Purge Method:	Surge and Purge	Pump Bladder:	Submersible Whale Pump
Pump Rate:	2.35L/min	Depth to Pump:	39.5
Purge Start Time:	11:11	Purge End Time:	12:40

Time	Purge Volume (gal)	pH	Conductivity (ms/cm)	Temp (°C)	Turburbity (NTUs)
11:11	0	5.73	1.610	16.15	0.0
11:16	5	6.53	1.540	16.35	163.0
11:24	10	6.83	1.550	16.44	257.0
11:32	15	6.98	1.530	16.75	8.5
11:42	20	7.08	1.510	16.62	79.9
11:51	25	7.19	1.550	16.37	18.7
11:59	30	7.24	1.540	16.50	27.2
12:07	35	7.26	1.560	16.60	38.5
12:15	40	7.31	1.540	17.17	27.3
12:24	45	7.37	1.570	16.86	33.8
12:33	50	7.45	1.560	16.85	53.5
12:40	55	7.48	1.550	16.85	8.7

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Well Purge & Sample Record

Site Name/Location: Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Well ID: CLMW-01S
Project No: US-WSP-EEA1705007.6488
Date: 11/13/2024
Sampled by: Gregory Mayer

Intial Depth to Water: 31.82 ft
Total Well Depth: 33.80 ft
Purge Method: Low-flow Purging
Pump Rate: 500ml/min
Purge Start Time: 14:11

Well Diameter: 2
1x well Volume: 0.4 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 32.5
Sample Time: 16:10

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
14:11	0	5.56	16.01	34	0.747	1.75	*1k*	31.91
14:24	5	7.21	15.91	-81	0.800	0.86	*799*	31.8
14:35	10	7.73	17.29	-115	0.767	1.18	*235*	32.15
14:45	15	8.13	17.33	-156	0.725	0.31	*60*	32.17
14:55	20	8.31	17.38	-160	0.764	0.25	*52*	32.15
15:05	25	8.37	17.4	-153	0.861	0.28	*11*	32.15
15:15	30	8.36	17.28	-130	1.050	0.86	*1*	32.14
15:27	35	8.42	17.06	-83	1.250	1.63	*0*	32.15
15:35	40	8.36	17.42	-59	1.380	2.07	*20*	32.25
15:45	45	8.35	17.5	-28	1.480	2.79	*7*	32.27
15:55	50	8.33	17.49	-3	1.540	3.55	*0*	32.23
16:00	55	8.32	17.43	4	1.550	3.76	*0*	32.26
16:05	60	8.31	17.4	9	1.560	3.96	*0*	32.25

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Well Purge & Sample Record

Site Name/Loca Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-02I
Date: 11/18/24

Intial Depth to Water: 34.00
Total Well Depth: 51.80
Purge Method: Low-flow Purging
Pump Rate: 5L/min
Purge Start Time: 9:00

Well Diameter: 2in
1x well Volume: 3 gal
Pump Bladder: HDPE 1.75""
Depth to Pump: 37.00
Sample Time: 11:45

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
9:00	5	7.17	16.31	224	1.060	2.22	645	34.1
9:10	10	7.2	16.31	232	1.110	3.01	548	34.1
9:20	15	7.28	16.31	197	1.140	3.79	356	34.1
9:30	20	7.35	16.31	186	1.170	4.55	279	34.1
9:40	25	7.43	16.32	163	1.210	5.02	241	34.1
9:50	30	7.44	16.35	145	1.210	3.75	201	34.1
10:00	35	7.45	16.62	137	1.210	2.88	188	34.1
10:10	40	7.46	16.74	126	1.200	1.86	170	34.1
10:20	45	7.45	16.74	119	1.190	1.78	143	34.1
10:30	50	7.45	16.74	116	1.190	1.65	113	34.1
10:40	55	7.45	16.74	111	1.190	1.56	97.4	34.1
10:50	60	7.45	16.74	107	1.180	1.47	37.1	34.1
11:00	65	7.45	16.74	105	1.180	1.38	11.2	34.1
11:10	70	7.45	16.73	103	1.170	1.38	0	34.1
11:20	75	7.45	16.74	103	1.170	1.36	0	34.1
11:30	80	7.45	16.74	102	1.170	1.35	0	34.1
11:40	85	7.45	16.74	102	1.170	1.35	0	34.1

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Well Purge & Sample Record

Site Name/Locati: Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-02S
Date: 11/19/24

Intial Depth to Water: 33.85 ft
Total Well Depth: 35.90 ft
Purge Method: Low-flow Purging
Pump Rate: 0.3L/min
Purge Start Time: 9:00

Well Diameter: 2in
1x well Volume: 0.33 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 37 ft
Sample Time: 10:30

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
9:00	0	7.11	14.1	-27	0.367	1.78	1000	33.9
9:10	3	7.78	14.87	-148	0.375	1.56	657.2	33.9
9:20	6	8.55	15.99	-201	0.382	1.39	218.4	33.9
9:30	9	9.64	16.51	-246	0.395	1.21	53.2	33.9
9:40	12	9.37	16.52	-179	0.458	1.48	14.7	33.9
9:50	15	9.35	16.53	-172	0.568	1.58	7.4	33.9
10:00	18	9.31	16.53	-165	0.740	1.64	0	33.9
10:10	21	9.18	16.51	-114	0.759	1.59	0	33.9
10:20	24	9.13	16.5	-111	0.794	1.55	0	33.9
10:30	27	9.07	16.5	-107	0.787	1.50	0	33.9

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Well Purge & Sample Record

Site Name/Locati: Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-03I
Date: 11/19/24

Intial Depth to Water: 35.30
Total Well Depth: 45.93
Purge Method: Low-flow Purging
Pump Rate: 0.5L/min
Purge Start Time: 11:40

Well Diameter: 2 in
1x well Volume: 1.75 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 38.5
Sample Time: 13:00

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
11:40	0	7.85	14.85	192	2.520	7.63	263	35.32
11:50	5	7.61	15.57	197	2.530	7.48	214	35.32
12:00	10	7.42	16.45	204	2.570	7.45	177	35.32
12:10	15	6.88	16.88	211	2.580	7.39	137	35.32
12:20	20	6.67	17.08	217	2.590	7.31	62.4	35.32
12:30	25	6.67	17.11	220	2.570	7.39	13.5	35.32
12:40	30	6.66	17.12	221	2.530	7.45	9.8	35.32
12:50	35	6.64	17.13	223	2.520	7.49	8.4	35.32
13:00	40	6.64	17.13	224	2.510	7.51	7.2	35.32

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Well Purge & Sample Record

Site Name/Location: Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Well ID: CLMW-04I
Project No: US-WSP-EEA1705007.6488
Date: 11/14/2024
Sampled by: GM

Intial Depth to Water: 39.95
Total Well Depth: 47.8
Purge Method: Low-flow Purging
Pump Rate: 0.5 L/min
Purge Start Time: 08:30

Well Diameter: 2 in
1x well Volume: 3.35 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 43.00 ft
Sample Time: 11:45

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
10:00	0	5.99	14.86	231	1.690	8.9	8.5	32.85
10:10	5	7.03	15.44	143	3.700	8.16	0	32.85
10:20	10	7.05	15.62	134	3.610	7.84	0	32.85
10:30	15	7.06	15.63	132	3.560	7.76	0	32.85
10:40	20	7.08	15.63	130	3.520	7.69	0	32.85
10:50	25	7.08	15.64	128	3.480	7.62	0	32.85
11:00	30	7.08	15.71	128	3.460	7.64	0	32.85
11:10	35	7.07	15.75	127	3.430	7.66	0	32.85
11:20	40	7.07	15.82	127	3.410	7.68	0	32.85
11:30	45	7.08	15.85	127	3.410	7.7	0	32.85
11:40	50	7.08	15.87	127	3.410	7.71	0	32.85

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Well Purge & Sample Record

Site Name/L Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-04S
Date: 11/14/24

Intial Depth to Water: 32.60 ft
Total Well Depth: 37.90 ft
Purge Methc Low-flow Purging
Pump Rate: 0.5L/min
Purge Start Time: 12:30

Well Diameter: 2in
1x well Volume: 0.75 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 36 ft
Sample Time: 14:05

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level
12:30	0	6.97	14.62	157	9.830	19.35	12.7	32.72
12:40	5	6.85	14.8	143	9.880	17.4	76.4	32.7
12:50	10	6.8	14.92	138	9.970	17.17	37.4	32.7
13:00	15	6.71	15.41	121	10.240	9.78	11.4	32.7
13:10	20	6.7	15.77	117	10.370	9.19	0	32.7
13:20	25	6.65	16	106	10.800	9.6	0	32.7
13:30	30	6.66	16.02	104	10.800	9.78	0	32.7
13:40	35	6.67	16.04	102	10.800	9.88	0	32.7
13:50	40	6.68	16.04	101	10.800	9.91	0	32.7
14:00	45	6.68	16.06	100	10.800	9.95	0	32.7

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Well Purge & Sample Record

Site Name/Location: Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-05I
Date: 11/15/24

Intial Depth to Water: 34.96 ft
Total Well Depth: 51.05 ft
Purge Method: Low-flow Purging
Pump Rate: 0.5L/min
Purge Start Time: 8:20

Well Diameter: 2 in
1x well Volume: 2.6 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 38 ft
Sample Time: 10:10

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
8:20	4.5	6.56	14.72	178	1.390	1.48	123	34.97
8:30	10	6.78	15.91	156	1.350	1.48	74.7	34.97
8:40	15	6.92	15.22	137	1.330	1.49	17.3	34.97
8:50	20	7.15	15.99	120	1.310	1.49	10	34.97
9:00	25	7.57	16.23	110	1.270	1.49	0	34.97
9:10	30	7.31	16.49	96	1.260	1.49	0	34.97
9:20	35	7.8	16.5	90	1.260	0.87	0	34.97
9:30	40	7.8	16.51	87	1.270	0.81	0	34.97
9:40	45	7.8	16.52	84	1.270	0.7	0	34.97
9:50	50	7.8	16.53	82	1.270	0.68	0	34.97
10:00	55	7.3	16.52	82	1.270	0.68	0	34.97

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Well Purge & Sample Record

Site Name/Location:	Court and Luquer St. Source Area Trackdown, Brooklyn, NY	Well ID: CLMW-05S	
Project No:	US-WSP-EEA1705007.6488	Date: 11/15/2024	
Sampled by:	GM		
Intial Depth to Water:	34.96 ft	Well Diameter:	2 in
Total Well Depth:	37.83 ft	1x well Volume:	0.56 gal
Purge Method:	Low-flow Purging	Pump Bladder:	HDPE 1.75"
Pump Rate:	0.4L/min	Depth to Pump:	36 ft
Purge Start Time:	11:20	Sample Time:	12:45

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
11:20	0	7.58	16.11	84	2.410	3.66	603	35
11:30	4	7.38	16.44	91	2.420	3.25	314	35
11:40	8	7.24	16.51	101	2.430	2.95	73.4	35
11:50	12	7.17	16.7	108	2.440	2.69	11	35
12:00	16	7.1	16.86	116	2.440	2.55	0	35
12:10	20	7.07	16.83	119	2.410	2.58	0	35
12:20	24	7.06	16.89	120	2.410	2.59	0	35
12:30	28	7.05	16.89	122	2.400	2.60	0	35

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Well Purge & Sample Record

Site Name/Locatic Court and Luquer St. Source Area Trackdown, Brooklyn, NY
Project No: US-WSP-EEA1705007.6488
Sampled by: GM

Well ID: CLMW-06
Date: 11/20/2024

Intial Depth to Water: 39.95 ft
Total Well Depth: 47.80 ft
Purge Method: Low-flow Purging
Pump Rate: 5L/min
Purge Start Time: 08:30

Well Diameter: 2 in
1x well Volume: 1.75 gal
Pump Bladder: HDPE 1.75"
Depth to Pump: 43.50 ft
Sample Time: 11:15

Time	Purge Volume (L)	pH	Temp (°C)	ORP (mV)	Conductivity (ms/cm)	DO (mg/L)	Turburbity (NTUs)	Water Level (ft)
8:30	0	5.96	15.06	235	1.510	4.89	434	40
8:40	5	6.27	15.79	224	1.560	4.81	371	40
8:50	10	6.59	16.18	221	1.580	4.69	104	40
9:00	15	6.78	16.3	217	1.590	4.61	37.2	40
9:10	20	7.08	16.51	204	1.590	4.50	18.5	40
9:20	25	7.08	16.52	206	1.280	4.55	11.8	40
9:30	30	7.08	16.53	209	1.210	4.62	9.6	40
9:40	35	7.07	16.54	211	1.140	4.66	4.7	40
9:50	40	7.07	16.55	213	1.100	4.69	0	40
10:00	45	7.08	16.61	214	1.200	4.73	0	40
10:10	50	7.09	16.63	216	1.480	4.82	0	40
10:20	55	7.09	16.64	218	1.640	4.89	0	40
10:30	60	7.08	16.64	218	1.650	4.59	0	40
10:40	65	7.08	16.65	219	1.650	4.51	0	40
10:50	70	7.07	16.67	220	1.640	4.33	0	40
11:00	75	7.07	16.69	220	1.640	4.28	0	40
11:10	80	7.07	16.7	220	1.640	4.26	0	40

E Data Usability Summary Reports

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*
    - *SOP NO. QA-HWSS-A-005, Rev. 0, Standard Operating Procedure for Validation of Semivolatile Data*
    - *SOP NO. QA-HWSS-A-007, Rev. 0, Standard Operating Procedure for Validation of Pesticide Data*
    - *SOP NO. HW-17, Rev. 3.1, Validating Chlorinated Herbicides*
    - *SOP NO. QA-HWSS-A-006, Rev. 0, Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data*
    - *SOP NO. QA-HWSS-A-010, Rev. 0, Standard Operating Procedure for the Validation of ICP-AES Data*
    - *SOP NO. QA-HWSS-A-011, Rev. 0, Standard Operating Procedure for Validation of Mercury Data*
    - *SOP NO. QA-HWSS-A-012, Rev. 0, Standard Operating Procedure for Validation of Cyanide Data*
- US DoD Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EEA1705007.6488	24J4506 24K0174 24K0481	Con-test, A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24J4506	SO	CLMW-03-Z12-13	24J4506-05	2024/10/30 11:00		
24J4506	SO	CLMW-03-Z21-22	24J4506-06	2024/10/30 11:30		
24J4506	SO	CLMW-03-Z35-36	24J4506-07	2024/10/30 12:00		
24J4506	SO	CLMW-03-Z42-43	24J4506-08	2024/10/30 12:10		
24J4506	SO	CLMW-06-Z25-26	24J4506-01	2024/10/29 10:30		
24J4506	SO	CLMW-06-Z36-37	24J4506-02	2024/10/29 11:00		
24J4506	SO	CLMW-06-Z42-43	24J4506-03	2024/10/29 11:10		
24J4506	SO	CLMW-06-Z48-49	24J4506-04	2024/10/29 11:20		
24J4506	WQ	FB-241030	24J4506-09	2024/10/30 15:00	FB	
24K0174	SO	CLMW-02-Z17-18	24K0174-06	2024/11/01 14:30		
24K0174	SO	CLMW-02-Z28-29	24K0174-07	2024/11/01 15:10		

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24K0174	SO	CLMW-02-Z34-35	24K0174-08	2024/11/01 15:40		
24K0174	SO	CLMW-02-Z45-46	24K0174-09	2024/11/01 16:00		
24K0174	SO	CLMW-05-Z11-12	24K0174-01	2024/10/31 12:00		
24K0174	SO	CLMW-05-Z24-25	24K0174-02	2024/10/31 12:20		
24K0174	SO	CLMW-05-Z34-35	24K0174-03	2024/10/31 12:30		
24K0174	SO	CLMW-05-Z34-35Q	24K0174-04	2024/10/31 12:35	FD	
24K0174	SO	CLMW-05-Z44-45	24K0174-05	2024/10/31 12:50	MS/MSD	
24K0481	SO	CLMW-01-Z12-13	24K0481-06	2024/11/06 14:10		
24K0481	SO	CLMW-01-Z37-38	24K0481-07	2024/11/06 15:00	MS/MSD	
24K0481	SO	CLMW-04-Z14-15	24K0481-01	2024/11/05 13:00		
24K0481	SO	CLMW-04-Z22-23	24K0481-02	2024/11/05 13:20		
24K0481	SO	CLMW-04-Z33-34	24K0481-03	2024/11/05 14:10		
24K0481	SO	CLMW-04-Z45-46	24K0481-04	2024/11/05 14:40		
24K0481	SO	CLMW-04-Z45-46Q	24K0481-05	2024/11/05 14:50	FD	
24K0481	WQ	FB-241106	24K0481-08	2024/11/06 16:00	FB	

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24J4506	SO	SW8260D	Volatile Organic Compounds by GC/MS	8	N
24J4506	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	FB
24J4506	SO	SW8270E	Semivolatile Organic Compounds by GC/MS	8	N
24J4506	WQ	SW8270E	Semivolatile Organic Compounds by GC/MS	1	FB
24J4506	SO	SW8270D SIM	1,4-Dioxane by GC/MS SIM	8	N
24J4506	WQ	SW8270D SIM	1,4-Dioxane by GC/MS SIM	1	FB
24J4506	SO	A2540G	Percent Solids	8	N
24J4506	SO	SW8081B	Organochlorine Pesticides by GC	8	N
24J4506	WQ	SW8081B	Organochlorine Pesticides by GC	1	FB
24J4506	SO	SW8151A	Chlorinated Herbicides by GC	8	N
24J4506	WQ	SW8151A	Chlorinated Herbicides by GC	1	FB
24J4506	SO	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	8	N
24J4506	WQ	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	1	FB
24J4506	SO	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	8	N
24J4506	WQ	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	1	FB
24J4506	SO	SW6010D	Metals by ICP-AES	8	N
24J4506	WQ	SW6010D	Metals by ICP-AES	1	FB
24J4506	WQ	SW7470A	Mercury in Liquid Wastes	1	FB
24J4506	SO	SW7471B	Mercury in Solid Wastes	8	N
24J4506	SO	SW9014	Cyanide	8	N
24J4506	WQ	SW9014	Cyanide	1	FB
24K0174	SO	SW8260D	Volatile Organic Compounds by GC/MS	9	N/FD

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K0174	SO	SW8270E	Semivolatile Organic Compounds by GC/MS	9	N/FD
24K0174	SO	SW8270D SIM	1,4-Dioxane by GC/MS SIM	9	N/FD
24K0174	SO	A2540G	Percent Solids	9	N/FD
24K0174	SO	SW8081B	Organochlorine Pesticides by GC	9	N/FD
24K0174	SO	SW8151A	Chlorinated Herbicides by GC	9	N/FD
24K0174	SO	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	9	N/FD
24K0174	SO	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	9	N/FD
24K0174	SO	SW6010D	Metals by ICP-AES	9	N/FD
24K0174	SO	SW7471B	Mercury in Solid Wastes	9	N/FD
24K0174	SO	SW9014	Cyanide	9	N/FD
24K0481	SO	SW8260D	Volatile Organic Compounds by GC/MS	7	N/FD
24K0481	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	FB
24K0481	SO	SW8270E	Semivolatile Organic Compounds by GC/MS	7	N/FD
24K0481	WQ	SW8270E	Semivolatile Organic Compounds by GC/MS	1	FB
24K0481	SO	SW8270D SIM	1,4-Dioxane by GC/MS SIM	7	N/FD
24K0481	WQ	SW8270D SIM	1,4-Dioxane by GC/MS SIM	1	FB
24K0481	SO	A2540G	Percent Solids	7	N/FD
24K0481	SO	SW8081B	Organochlorine Pesticides by GC	7	N/FD
24K0481	WQ	SW8081B	Organochlorine Pesticides by GC	1	FB
24K0481	SO	SW8151A	Chlorinated Herbicides by GC	7	N/FD
24K0481	WQ	SW8151A	Chlorinated Herbicides by GC	1	FB
24K0481	SO	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	7	N/FD
24K0481	WQ	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	1	FB
24K0481	SO	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	7	N/FD
24K0481	WQ	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	1	FB
24K0481	SO	SW6010D	Metals by ICP-AES	7	N/FD
24K0481	WQ	SW6010D	Metals by ICP-AES	1	FB
24K0481	WQ	SW7470A	Mercury in Liquid Wastes	1	FB
24K0481	SO	SW7471B	Mercury in Solid Wastes	7	N/FD
24K0481	SO	SW9014	Cyanide	7	N/FD
24K0481	WQ	SW9014	Cyanide	1	FB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	In SDG 24K0481, a trip blank was included on the COC, but none was received by the laboratory. The trip blanks in SDGs 24J4506 and 24K0174 were canceled by the lab due to being incorrectly prepared and unable to be run. This may impact VOC samples within the coolers, where the contamination during the handling/sampling process prior to analysis is unknown and could lead to false positive results. Field blanks were used to determine any trip contamination in place of the missing trip blanks in SDGs 24J4506 and 24K0481. SDG 24K0174 did not contain any blanks; therefore, all positive results for VOCs in this SDG are considered suspect for possible contamination and were J qualified as estimated.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Field Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	2 field duplicates collected per 22 samples. 2 MS/MSDs collected per 22 samples. 2 field blanks collected.
Case narrative present and complete?	Yes.
Any holding time violations?	Yes. Samples CLMW-03-Z12-13, CLMW-03-Z21-22, CLMW-03-Z35-36, CLMW-03-Z42-43, CLMW-06-Z25-26, CLMW-06-Z36-37, CLMW-06-Z42-43, CLMW-06-Z48-49, CLMW-02-Z17-18, CLMW-02-Z28-29, CLMW-02-Z34-35, CLMW-02-Z45-46, CLMW-01-Z12-13, and CLMW-01-Z37-38 were extracted past the recommended holding time for percent solids. No qualifications were made. CLMW-06-Z25-26, CLMW-06-Z36-37, CLMW-06-Z42-43, and CLMW-06-Z48-49 were extracted past the recommended holding time for pesticides. All of the associated results were non-detect and were UJ qualified as estimated non-detect.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A)
- Surrogates Outside Limits (Table 3)
- Internal Standards Outside Limits (Table 3A)
- Isotope Dilution Analytes Outside Limits (Table 3B)
- Ion Ratios Outside Limits (Table 3C)
- MS/MSD Outside Limits (Table 4 and 4A)
- LCS/LCSD Outside Limits (Table 5 and 5A)
- ICV/CCV Outside Limits (Table 5B)

- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Acetone recovered below the PQL in field blank sample FB-241030. The associated results were non-detect; therefore, no qualifications were made.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes. Surrogate 4-bromofluorobenzene recovered above upper limits in sample FB-241030. Most of the associated results were non-detect and did not require qualification. Acetone was J+ qualified as estimated high.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	No. Ethanol recovered at 0% in the MS and MSD of samples CLMW-05-Z44-45 and CLMW-01-Z37-38. The associated results in the parent samples were non-detect and were UR qualified as unusable non-detect. 1,2-Dibromo-3-chloropropane exhibited poor precision between the MS and MSD of sample CLMW-05-Z44-45. The associated result was non-detect; therefore, no qualification was made.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Acetone was recovered below acceptance criteria in LCSD B391462-BSD1. The associated result in FB-241030 was J qualified as estimated. Acetone, 1,1-dichloroethylene, and methylene chloride recovered below acceptance criteria in LCS B392083-BS1 and/or LCSD B392083-BSD1. The associated results were non-detect and were UJ qualified as estimated non-detect. Bromochloromethane, tert-butyl alcohol (TBA), 1,1-dichloroethylene, and diisopropyl ether (DIPE) exhibited poor precision between LCS B392083-BS1 and LCSD B392083-BSD1. The associated results were non-detect and did not require qualification.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	No. Ethanol recovered outside limits in S111840-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. Ethanol recovered outside acceptance limits in S113406-CCV2. Associated results were non-detect and were UJ qualified as estimated non-detect. Acetone, benzene, carbon tetrachloride, and dichlorodifluoromethane recovered outside limits in S113482-CCV1. Associated detections were J qualified as estimated; associated non-detects were UJ qualified as estimated non-detect. Ethanol recovered outside limits in S113485-CCV2. The associated results were non-detect and were UJ qualified as estimated non-detect. Naphthalene recovered outside limits in S113681-CCV1 and ethanol recovered outside limits in S113681-CCV2. The associated results were non-detect and were UJ qualified as estimated non-detect. Acetone, benzene, ethanol, and methylene chloride recovered outside limits in S113975-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	TICs 3-methyloctane and 2,3-dimethylheptane were detected in method blank sample B391425-BLK1. The associated detections were all less than two times the blank result and were U qualified as non-detect. N-Nitrosodiphenylamine and 1,4-dioxane were detected in field blank sample FB-241030. The associated results were non-detect; therefore, no qualifications were made. TICs 2,3,5-Trimethyl hexane, mesityl oxide, 2,5-dimethyl heptane, and 2,3-dimethylheptane were detected in method blank sample B391875-BLK1. The associated detections were all less than two

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
	times the blank result and were U qualified as non-detect. 1,4-Dioxane was detected above the PQL in method blank sample B391943-BLK1. The associated sample had a detection for 1,4-dioxane below the blank detection; therefore, the result was U qualified as non-detect.
Are surrogates for method blanks and LCS within limits?	No. 2,4,6-Tribromophenol recovered above the upper limits in LCSD B391397-BSD1. All associated recoveries were above 10%. No qualifications were applied to QC samples.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Aniline recovered above upper limits and hexachlorocyclopentadiene and pyridine recovered below lower limits in the MS and MSD of sample CLMW-05-Z44-45. All of the associated results were non-detect; therefore, aniline was not qualified and hexachlorocyclopentadiene and pyridine were UJ qualified as estimated non-detect. Hexachlorocyclopentadiene and pyridine recovered below lower limits in the MS and MSD of sample CLMW-01-Z37-38. The associated results were UJ qualified as estimated non-detect in the parent sample. 3,3-Dichlorobenzidine and 4,6-dinitro-2-methylphenol exhibited poor precision between the MS/MSD pair. Both analytes were non-detect; therefore, no qualifications were made.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Caprolactam, 2,4-dinitrophenol, and hexachloroethane recovered below lower limits in B391397-BS1. Caprolactam also recovered low in LCSD B391397-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. 2,3,4,6-Tetrachlorophenol and 2,4-dinitrophenol exhibited poor precision between LCS B391397-BS1 and LCSD B391397-BSD1. The associated results were non-detect; therefore, no qualifications were made.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
	Hexachlorocyclopentadiene and pyridine recovered below lower limits in LCS B391425-BS1 and LCSD B391425-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. Benzaldehyde exhibited poor precision between LCS B391425-BS1 and LCSD B391425-BSD1. Associated results were non-detect; therefore, no qualifications were made. Pyridine recovered below lower limits in LCS B391875-BS1. The associated results were non-detect and were UR qualified as unusable non-detect. Hexachlorocyclopentadiene and pyridine recovered below lower limits in LCS B391939-BS1 and LCSD B391939-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. Caprolactam recovered below lower limits in LCS B391980-BS1 and LCSD B391980-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. 2,4-Dinitrophenol, hexachlorobutadiene, and pyridine exhibited poor precision between the LCS and LCSD. The associated results were non-detect; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	No. Dibenz(a,h)anthracene, 2,4-dinitrophenol, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene recovered outside limits in initial calibrations 2401184 and 2401244. The associated results were non-detect; therefore, no qualifications were made. 2,3,4,6-Tetrachlorophenol, 4-chloroaniline, and pyridine recovered outside limits in ICV S108638-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect. Pyridine recovered outside limits in ICV S113334-ICV1 and S114725-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect. 4-Chloroaniline and pyridine recovered outside limits in ICV S111153-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. 2,4-Dinitrophenol, hexachlorocyclopentadiene, and pentachlorophenol recovered outside limits in CCV S113405-CCV1. 2,3,4,6-Tetrachlorophenol and caprolactam also recovered outside limits in CCV S113405-CCV2. Associated results were non-detect and were UJ qualified as estimated non-detect. Aniline and 2,4-dinitrophenol recovered outside limits in CCV S113601-CCV1. Associated results were non-detect and were UJ qualified as estimated non-detect. Benzaldehyde recovered outside limits in CCV S113829-CCV2. Associated results were non-detect and were UJ qualified as estimated non-detect. 2,4-Dinitrophenol, hexachlorocyclopentadiene, and pentachlorophenol in CCV S113897-CCV1 and 2,3,4,6-tetrachlorophenol and benzaldehyde in CCV S113897-CCV2 recovered outside limits. The associated results were non-detect and were UJ qualified as estimated non-detect. Aniline, pyrene, and pyridine recovered outside limits in CCV S113934-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All results for semivolatiles in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Are pesticide breakdowns within limits?	Yes.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Alpha-BHC, delta-BHC, gamma-BHC, endosulfan I, endosulfan II, and endrin aldehyde exhibited poor precision between the MS and MSD of sample CLMW-01-Z37-38. The associated results were non-detect; therefore, no qualifications were made.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Endrin recovered below lower limits in LCSD B391979-BSD1. The associated result was non-detect and was UR qualified as unusable non-detect. Dieldrin, endrin, and endrin ketone exhibited poor precision between LCS B391979-BS1 and LCSD B391979-BSD1. The associated results were non-detect; therefore, no qualifications were made.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	Yes.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All results for pesticides in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Herbicides – Method 8151A	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.

Herbicides – Method 8151A	
Description	**Notes and Qualifiers**
Are pesticide breakdowns within limits?	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Dalapon exhibited poor precision between LCS WG1996223-2 and LCSD WG1996223-3. The associated results were non-detect and did not require qualification.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	Yes.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	No. 2,4-DB recovered outside limits in CCVs WG1994625-4, WG1996759-4, WG1996759-5, and WG1998211-2. The associated results were non-detect and were UJ qualified as estimated non-detect. 2,4-DB and 2,4,5-T recovered outside limits in CCVs WG1996759-2 and WG1998211-5. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All results for herbicides in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D?	No. Aroclor-1016 recovered outside limits in ICV S113736-ICV1. Aroclor-1248 recovered outside limits in S113739-ICV1. Aroclor-1242 recovered outside limits in S113740-ICV1 and S114021-ICV1. Aroclor-1268 recovered outside limits in S113741-ICV1. Aroclor-1221 and aroclor-1262 recovered outside limits in S113742-ICV1. The associated results were non-detect; therefore, no qualifications were made.
Is continuing calibration for target compounds <20%D? (See Table 5C)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes. All soil samples were diluted. Elevated reporting limits are provided, which may impact data usability for non-detects.
Spot check retention time windows and second column confirmations as complete.	Yes.
Do field duplicate results show good precision for all compounds (see Table 7)?	All results for PCBs in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are <RL, U flag data; if >RL but <5 times the blank contaminants, then "J+" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3B). If out, and recovery is high with no positive values, then no data qualification is required.	No. Multiple IDA recoveries were outside control limits in S115152-CCB1, S115152-CCB2, S115152-CCB3, S115152-CCB4, and S115201-CCB3. The associated results were non-detect and the bias was on the high side; therefore, no qualifications were made.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
	Multiple IDAs recovered outside limits in B393456-BS1. The associated results in the LCS were within limits; therefore, no qualifications were made. Multiple IDAs recovered outside limits in CLMW-04-Z45-46. The associated results were non-detect and were UJ qualified as estimated non-detect.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? Failures should not result in qualification if the native analyte concentration is greater than 3X the spike concentration.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria (see Table 3B)? Do transition mass ratios fall within acceptance limits (see Table 3C)?	No. Non-extracted internal standards 13C5-PFNA and 13C2-PFDA recovered below 50% but above 30% in sample CLMW-03-Z12-13. Possible high bias is present on associated extracted internal standard recoveries. All EIS recoveries were within limits. No qualifications were made. The qualifier ion ratios for perfluorobutanesulfonic acid (PFBS) in sample CLMW-02-Z28-29 and perfluorooctanesulfonic acid (PFOS) in sample CLMW-05-Z11-12 were below 50% of the associated calibration. The associated results were J qualified as estimated.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)? Does the bile salts standard include all required bile salts and achieve required separation for samples where PFOS is detected?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	All results for PFAS in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
	04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are < 5 times the blank then "U" flag data.	Cadmium was detected below the PQL in method blank sample B391808-BLK2. The associated results were all below the PQL and were U qualified as non-detect. The MDLs were elevated to the original sample results. Lead was detected below the PQL and magnesium above the PQL in method blank sample B391801-BLK1. The associated lead result was below the PQL and was U qualified as non-detect with the MDL elevated to the original sample result. The associated magnesium result was non-detect and did not require qualification. Zinc was detected below the PQL in method blank sample B391801-BLK2. The associated result was below the PQL and was U qualified as non-detect with the MDL elevated to the original sample result. Zinc was detected above the PQL in method blank sample B391808-BLK3. The associated results were greater than ten times the blank result; therefore, no qualifications were made.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	No. Antimony and potassium recovered below lower limits in the MS and MSD of sample CLMW-05-Z44-45. Barium also recovered below lower limits in the MS. Associated non-detect results were UJ qualified as estimated non-detect and associated detections were J qualified as estimated. Aluminum, calcium, iron, magnesium, and manganese also recovered outside limits in the MS and/or MSD of sample CLMW-05-Z44-45. However, the sample results were greater than four times the spike amount for each of these analytes; therefore, no qualifications were made. Barium recovered below lower limits in the MS for sample CLMW-01-Z37-38. Chromium also recovered above upper limits in the MSD. The associated results were J qualified as estimated.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
	Antimony recovered below lower limits in both the MS and MSD for CLMW-01-Z37-38. The associated result was UJ qualified as estimated non-detect. Antimony and selenium recovered below lower limits in the MS for CLMW-04-Z14-15. The associated results were UJ qualified as estimated non-detect. Barium and nickel recovered above the upper limits in the MS for CLMW-04-Z14-15. The associated results were J qualified as estimated.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	No. Manganese recovered above upper limits in the LCSD associated with batch B391603. The associated results were J+ qualified as estimated high.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Sample CLMW-01-Z12-13 was diluted for iron and calcium. Sample CLMW-01-Z37-38 was diluted for iron. Elevated reporting limits are provided. There is no impact on data usability.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Is calibration low level verification (CCVL) within QC criteria of 70-130% recovery? If not was sample re-analyzed to establish criteria?	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 95-105%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check ICB and CCB +/- RL. Contact lab if unacceptable.	Multiple analytes were detected in CCBs associated with batch S113853 and S114179. The associated results were non-detect; therefore, no qualifications were made. Arsenic was detected below the PQL in S113779-CCB1. The associated results were all below the PQL and were U qualified as non-detect with the MDLs elevated to the original sample results.
Do field duplicate results show good precision for all compounds (see Table 6)?	Yes.

Mercury – Method 7470A and 7471B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.

Mercury – Method 7470A and 7471B	
Description	**Notes and Qualifiers**
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not Applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is there one serial dilution for each analytical batch?	Yes.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check CRA/ICVL/CCVL 70-130%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Mercury results in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not Applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Cyanide exhibited poor precision between the LCS and LCSD in batch B391415. Associated results were non-detect; therefore, no qualifications were made.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 80-120%. Contact lab if unacceptable.	Acceptable.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Cyanide results in the two field duplicate pairs of CLMW-05-Z34-35/CLMW-05-Z34-35Q and CLMW-04-Z45-46/CLMW-04-Z45-46Q were non-detect; therefore, precision could not be evaluated.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

N – Indicates presumptive evidence of a compound. This flag is used for a tentatively identified compound, where the identification is based on a mass spectral library search.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was rejected and considered unusable due to quality control anomalies.

Summary of Findings

VOCs

- Acetone was J qualified in FB-241030 due to poor recovery in the associated LCS and CCV.
- Ethanol was UJ qualified in multiple samples due to poor recovery in the associated ICV/CCVs. See Table 5B for associated samples.
- Benzene, carbon tetrachloride, and dichlorodifluoromethane were UJ qualified in FB-241030 due to poor recovery in the associated CCV.
- Ethanol was UR qualified in samples CLMW-05-Z44-45 and CLMW-01-Z37-38 due to 0% recovery in the associated MS/MSDs.
- Naphthalene and ethanol were UJ qualified in multiple samples due to poor recovery in the associated CCV. See Table 5B for associated samples.
- Acetone, benzene, ethanol, and methylene chloride were UJ qualified in FB-241106 due to poor recovery in the associated CCV.

SVOCs

- 3-Methyloctane and 2,3-dimethylheptane were U qualified in multiple samples due to contamination in the associated method blank.
- 2,3,5-Trimethyl hexane, mesityl oxide, 2,5-dimethyl heptane, and 2,3-dimethylheptane were U qualified in multiple samples due to contamination in the associated method blank.
- 1,4-Dioxane was U qualified in FB-241106 due to contamination in the associated method blank.
- Caprolactam, 2,4-dinitrophenol, and hexachloroethane were UR qualified in sample FB-241030 due to low recovery in the associated LCS.
- Hexachlorocyclopentadiene and pyridine were UR qualified in eight samples due to low recovery in the associated LCS. See Table 5 for associated samples.
- 2,4-Dinitrophenol, hexachlorocyclopentadiene, pentachlorophenol, 2,3,4,6-tetrachlorophenol, and caprolactam were UJ qualified in eight samples due to poor recovery in the associated CCV. See Table 5B for associated samples.
- 2,3,4,6-Tetrachlorophenol, 4-chloroaniline, and pyridine were UJ qualified in multiple samples due to poor recovery in the associated ICV. See Table 5B for associated samples.
- Aniline and 2,4-dinitrophenol were UJ qualified in FB-241030 due to poor recovery in the associated CCV.
- Pyridine was UJ qualified in FB-241030 and in FB-241106 due to poor recovery in the associated ICV.

Summary of Findings

- Hexachlorocyclopentadiene and pyridine were UJ qualified in sample CLMW-05-Z44-45 due to poor recovery in the associated MS/MSD.
- Pyridine and hexachlorocyclopentadiene were UR qualified in multiple samples due to low recovery in the associated LCS. See Table 5 for associated samples.
- Hexachlorocyclopentadiene and pyridine were UJ qualified in CLMW-01-Z37-38 due to poor recovery in the associated MS/MSD.
- 4-Chloroaniline and pyridine were UJ qualified in nine samples due to poor recovery in the associated ICV. See Table 5B for associated samples.
- Benzaldehyde was UJ qualified in nine samples due to poor recovery in the associated CCV. See Table 5B for associated samples.
- Caprolactam was UR qualified in sample FB-241106 due to low recovery in the associated LCS.
- 2,4-Dinitrophenol, hexachlorocyclopentadiene, pentachlorophenol, 2,3,4,6-tetrachlorophenol, and benzaldehyde were UJ qualified in multiple samples due to poor recovery in the associated CCV. See Table 5B for associated samples.
- Aniline, pyrene, and pyridine were UJ qualified in FB-241106 due to poor recovery in the associated CCV.
-

Pesticides

- Endrin was UR qualified in sample FB-241106 due to low recovery in the associated LCSD.

Herbicides

- 2,4-DB and 2,4,5-T were UJ qualified in multiple samples due to poor recovery in the associated CCV. See Table 5B for associated samples.

PCBs

- None.

PFAS

- None.

Metals

- Manganese was J+ qualified in eight samples due to high recovery in the associated LCSD. See Table 5 for associated samples.
- Cadmium, lead, and zinc were U qualified in multiple samples due to contamination in the associated method blank. See Table 2A for associated samples.
- Arsenic was U qualified in five samples due to detection in the associated CCB. See Table 2A for associated samples.
- Barium and chromium were J qualified in CLMW-01-Z37-38 due to poor recovery in the associated MS/MSD.
- Antimony was UJ qualified in CLMW-01-Z37-38 due to poor recovery in the associated MS/MSD.
- Antimony and selenium were UJ qualified in CLMW-04-Z14-15 due to poor recovery in the associated MS/MSD.
- Barium and nickel were UJ qualified in CLMW-04-Z14-15 due to poor recovery in the associated MS/MSD.

Mercury

- None.

Cyanide

- None.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW8260D	FB-241030	FB	Acetone	2.7	J	µg/L	2	50
SW8270E	B391425-BLK1	MB	3-Methyloctane	0.47	BN	mg/kg		
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	BN	mg/kg		
SW8270E	FB-241030	FB	N-Nitrosodiphenylamine	0.57	J	µg/L	0.5	10
SW8270DSIM	FB-241030	FB	1,4-Dioxane (P-Dioxane)	0.75		µg/L	0.033	0.2
SW8270E	B391875-BLK1	MB	Mesityl oxide	1.2	B	mg/kg		
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	B	mg/kg		
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	B	mg/kg		
SW8270E	B391875-BLK1	MB	2,3,5-Trimethyl Hexane	0.074	B	mg/kg		
SW8270DSIM	B391943-BLK1	MB	1,4-Dioxane	0.92	B	µg/L	0.033	0.20
SW6010D	B391808-BLK2	MB	Cadmium	0.27	J	mg/kg	0.15	0.32
SW6010D	B391801-BLK1	MB	Lead	0.0061	J	mg/L	0.0044	0.010
SW6010D	B391801-BLK1	MB	Magnesium	0.051	B	mg/L	0.016	0.050
SW6010D	B391801-BLK2	MB	Zinc	0.0085	JB	mg/L	0.008	0.010
SW6010D	B391808-BLK3	MB	Zinc	1.2		mg/kg	0.56	0.64
SW6010D	S113779-CCB1	CCB	Arsenic	0.0052		mg/L		0.010
SW6010D	S113853-CCB1	CCB	Cadmium	0.0027		mg/L		0.0040
			Lead	0.0045		mg/L		0.010
			Magnesium	0.025		mg/L		0.050
			Zinc	0.0082		mg/L		0.010
SW6010D	S113853-CCB2	CCB	Cadmium	0.0035		mg/L		0.0040
			Lead	0.0051		mg/L		0.010
			Magnesium	0.018		mg/L		0.050
SW6010D	S113853-CCB4	CCB	Lead	0.0057		mg/L		0.010
SW6010D	S114179-CCB3	CCB	Cadmium	0.0035		mg/L		0.0040
SW6010D	S114179-CCB4	CCB	Cadmium	0.0023		mg/L		0.0040

Table 2A - List of Samples Qualified for Method Blank Contamination

Data Usability Summary Report	Project: Court & Luquer St Soil
Date Completed: January 3, 2024	Prepared by: Christa Baker; Eridania Marte

Method	Blank Sample	Blank Type	Analyte	Blank Result	Sample Result	Lab Qual	Units	MDL	PQL	Affected Sample	Qualifier
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.47	BN	mg/kg	TIC	TIC	CLMW-03-Z12-13	U Flag
SW8270E	B391425-BLK1	MB	3-Methyloctane	0.47	0.66	BN	mg/kg	TIC	TIC	CLMW-03-Z21-22	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.53	BN	mg/kg	TIC	TIC	CLMW-03-Z21-22	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.42	BN	mg/kg	TIC	TIC	CLMW-03-Z35-36	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.47	BN	mg/kg	TIC	TIC	CLMW-03-Z42-43	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.38	BN	mg/kg	TIC	TIC	CLMW-06-Z25-26	U Flag
SW8270E	B391425-BLK1	MB	3-Methyloctane	0.47	0.48	BN	mg/kg	TIC	TIC	CLMW-06-Z36-37	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.39	BN	mg/kg	TIC	TIC	CLMW-06-Z36-37	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.37	BN	mg/kg	TIC	TIC	CLMW-06-Z42-43	U Flag
SW8270E	B391425-BLK1	MB	2,3-Dimethylheptane	0.38	0.41	BN	mg/kg	TIC	TIC	CLMW-06-Z48-49	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.2	BN	mg/kg	TIC	TIC	CLMW-02-Z17-18	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.48	BN	mg/kg	TIC	TIC	CLMW-02-Z17-18	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.19	BN	mg/kg	TIC	TIC	CLMW-02-Z17-18	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.43	BN	mg/kg	TIC	TIC	CLMW-02-Z28-29	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.16	BN	mg/kg	TIC	TIC	CLMW-02-Z28-29	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.1	BN	mg/kg	TIC	TIC	CLMW-02-Z34-35	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.43	BN	mg/kg	TIC	TIC	CLMW-02-Z34-35	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.16	BN	mg/kg	TIC	TIC	CLMW-02-Z34-35	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.0	BN	mg/kg	TIC	TIC	CLMW-02-Z45-46	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.46	BN	mg/kg	TIC	TIC	CLMW-02-Z45-46	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.17	BN	mg/kg	TIC	TIC	CLMW-02-Z45-46	U Flag
SW8270E	B391875-BLK1	MB	2,3,5-Trimethyl Hexane	0.074	0.071	BN	mg/kg	TIC	TIC	CLMW-05-Z11-12	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.1	BN	mg/kg	TIC	TIC	CLMW-05-Z11-12	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.46	BN	mg/kg	TIC	TIC	CLMW-05-Z11-12	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.18	BN	mg/kg	TIC	TIC	CLMW-05-Z11-12	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.13	BN	mg/kg	TIC	TIC	CLMW-05-Z24-25	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.54	BN	mg/kg	TIC	TIC	CLMW-05-Z34-35	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.18	B	mg/kg	TIC	TIC	CLMW-05-Z34-35	U Flag

Data Usability Summary Report	Project: Court & Luquer St Soil
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Method	Blank Sample	Blank Type	Analyte	Blank Result	Sample Result	Lab Qual	Units	MDL	PQL	Affected Sample	Qualifier
SW8270E	B391875-BLK1	MB	2,3,5-Trimethyl Hexane	0.074	0.081	BN	mg/kg	TIC	TIC	CLMW-05-Z34-35Q	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.1	BN	mg/kg	TIC	TIC	CLMW-05-Z34-35Q	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.19	BN	mg/kg	TIC	TIC	CLMW-05-Z34-35Q	U Flag
SW8270E	B391875-BLK1	MB	Mesityl Oxide	1.2	1.2	BN	mg/kg	TIC	TIC	CLMW-05-Z44-45	U Flag
SW8270E	B391875-BLK1	MB	2,5-Dimethyl Heptane	0.46	0.43	BN	mg/kg	TIC	TIC	CLMW-05-Z44-45	U Flag
SW8270E	B391875-BLK1	MB	2,3-Dimethylheptane	0.19	0.18	BN	mg/kg	TIC	TIC	CLMW-05-Z44-45	U Flag
SW8270D SIM	B391943-BLK1	MB	1,4-Dioxane	0.92	0.72	B	µg/L	0.033	0.20	FB-241106	U Flag
SW6010D	B391808-BLK2	MB	Cadmium	0.27	0.22	J	mg/kg	0.16	0.34	CLMW-04-Z14-15	U Flag
					0.22	J	mg/kg	0.16	0.33	CLMW-04-Z22-23	U Flag
					0.18	J	mg/kg	0.15	0.31	CLMW-04-Z33-34	U Flag
					0.19	J	mg/kg	0.16	0.34	CLMW-04-Z45-46	U Flag
					0.19	J	mg/kg	0.16	0.34	CLMW-04-Z45-46Q	U Flag
SW6010D	B391801-BLK1	MB	Lead	0.0061	0.0050	J	mg/L	0.0044	0.010	FB-241106	U Flag
SW6010D	B391801-BLK2	MB	Zinc	0.0085	0.0099	BJ	mg/L	0.0080	0.010		U Flag
SW6010D	B391808-BLK3	MB	Zinc	1.2	30	B	mg/kg	0.59	0.67	CLMW-04-Z14-15	None
					17	B	mg/kg	0.59	0.67	CLMW-04-Z22-23	None
					22	B	mg/kg	0.54	0.62	CLMW-04-Z33-34	None
					14	B	mg/kg	0.59	0.68	CLMW-04-Z45-46	None
					14	B	mg/kg	0.59	0.67	CLMW-04-Z45-46Q	None
SW6010D	S113779-CCB1	CCB	Arsenic	0.0052	1.9	J	mg/kg	0.47	3.4	CLMW-04-Z14-15	U Flag
					2.0	J	mg/kg	0.47	3.3	CLMW-04-Z22-23	U Flag
					2.6	J	mg/kg	0.44	3.1	CLMW-04-Z33-34	U Flag
					1.0	J	mg/kg	0.48	3.4	CLMW-04-Z45-46	U Flag

Method	Blank Sample	Blank Type	Analyte	Blank Result	Sample Result	Lab Qual	Units	MDL	PQL	Affected Sample	Qualifier
					1.2	J	mg/kg	0.47	3.4	CLMW-04-Z45-46Q	U Flag

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample Name	Sample Type	Surrogate	%R	Low Limit	High Limit	Dilution Factor	Associated Analytes	Qualifier
SW8260D	FB-241030	FB	4-Bromofluorobenzene	131	70	130	1X	Acetone	J+ Flag
SW8270E	B391397-BSD1	LCSD	2,4,6-Tribromophenol	117	15	110	1X	--	None

Table 3A – Internal Standards Outside Control Limits

Method	Sample Name	Sample Type	Internal Standard	%R	Low Limit	High Limit	Associated Analytes	Qualifier
E1633	CLMW-03-Z12-13	N	13C5-PFNA	47	50	200	13C9-PFNA	None
			13C2-PFDA	48	50	200	13C6-PFDA 13C7-PFUnA 13C2-PFDoA 13C2-PFTeDA	None

Table 3B - List of Samples with Isotope Dilution Analytes outside Control Limits

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
E1633	S115152-CCB1	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			13C2-6:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	None – QC
E1633	S115152-CCB2	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			13C2-6:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	None – QC
			13C2-8:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	None – QC
			13C2-PFTeDA	High	NP	NP	Perfluorotetradecanoic acid (PFTeDA)	None – QC
			D3-NMeFOSAA	High	NP	NP	N-MeFOSAA (NMeFOSAA)	None – QC
			D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
			D7-NMeFOSE	High	NP	NP	N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	None – QC
			D9-NEtFOSE	High	NP	NP	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	None – QC
E1633	S115152-CCB3	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115152-CCB4	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115201-CCB3	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115298-CCB2	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
			13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			13C2-6:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	None – QC
E1633	B393456-BS1	LCS	13C9-PFNA	35.4	40	130	Perfluorononanoic acid (PFNA)	None – QC
			13C6-PFDA	34.5	40	130	Perfluorodecanoic acid (PFDA)	None – QC
			13C3-PFHxS	37.2	40	130	Perfluorohexanesulfonic acid (PFHxS) Perfluoropentanesulfonic acid (PFPeS)	None – QC
			13C8-PFOS	32.4	40	130	Perfluorooctanesulfonic acid (PFOS) Perfluoroheptanesulfonic acid (PFHpS) Perfluorononanesulfonic acid (PFNS) Perfluorodecanesulfonic acid (PFDS) Perfluorododecanesulfonic acid (PFDoS)	None – QC
			13C2-8:2FTS	39.7	40	300	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	None – QC
			13C8-PFOSA	32.9	40	130	Perfluorooctanesulfonamide (PFOSA)	None – QC
			D3-NMeFOSAA	33.3	40	170	N-MeFOSAA (NMeFOSAA)	None – QC
E1633	CLMW-04-Z45-46	N	13C9-PFNA	39.8	40	130	Perfluorononanoic acid (PFNA)	UJ Flag
			13C6-PFDA	39.9	40	130	Perfluorodecanoic acid (PFDA)	UJ Flag
			13C7-PFUnA	36.8	40	130	Perfluoroundecanoic acid (PFUnA)	UJ Flag
			13C2-PFDoA	34.5	40	130	Perfluorododecanoic acid (PFDoA)	UJ Flag
			13C3-PFBS	39.0	40	135	Perfluorobutanesulfonic acid (PFBS)	UJ Flag
			13C3-PFHxS	37.5	40	130	Perfluoropentanesulfonic acid (PFPeS) Perfluorohexanesulfonic acid (PFHxS)	UJ Flag
			13C8-PFOS	38.9	40	130	Perfluoroheptanesulfonic acid (PFHpS) Perfluorooctanesulfonic acid (PFOS) Perfluorononanesulfonic acid (PFNS) Perfluorodecanesulfonic acid (PFDS)	UJ Flag

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
							Perfluorododecanesulfonic acid (PFDoS)	
			13C2-8:2FTS	32.6	40	275	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	UJ Flag

Table 3B – List of Ion Ratios outside Control Limits

Method	Sample ID	Sample Type	Analyte	Ratio	Lower Limit	Upper Limit	Sample Qualifier
E1633	CLMW-05-Z11-12	N	Perfluorooctanesulfonic acid (PFOS)	9.4	11.85	35.55	J Flag
E1633	CLMW-02-Z28-29	N	Perfluorobutanesulfonic acid (PFBS)	3.9	23.2	69.6	J Flag

Table 4 – List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS %Rec.	MSD %Rec.	Low Limit	High Limit	Sample Qualifier
SW8260D	CLMW-05-Z44-45	MS	Ethanol	ND	0.2008	0	0	70	130	UR Flag
SW8270E	CLMW-05-Z44-45	MS/MSD	Aniline	ND	1.927	144	153	40	140	None – High & ND
		MS/MSD	Hexachlorocyclopentadiene	ND	1.927	21.4	27.0	30	130	UJ Flag
		MS/MSD	Pyridine	ND	1.927	17.1	14.8	40	140	UJ Flag
SW6010D	CLMW-05-Z44-45	MS	Aluminum	2830	18.17	-973	116	75	125	None – 4X
		MS/MSD	Antimony	ND	18.17	66.3	66.1	75	125	UJ Flag
		MS	Barium	28.8	18.17	71.8	97.8	75	125	J Flag
		MS/MSD	Calcium	6250	145.4	-236	-799	75	125	None – 4X
		MS/MSD	Iron	6610	145.4	-615	-355	75	125	None – 4X
		MS/MSD	Magnesium	2480	145.4	-125	-111	75	125	None – 4X
		MS/MSD	Manganese	191	18.17	55.7	73.5	75	125	None – 4X
		MS/MSD	Potassium	497	145.4	568	598	75	125	J Flag
SW8260D	CLMW-01-Z37-38	MS/MSD	Ethanol	ND	0.1708	0	0	70	130	UR Flag
SW8270E	CLMW-01-Z37-38	MS/MSD	Hexachlorocyclopentadiene	ND	1.828	12.0	18.1	30	130	UJ Flag
		MS/MSD	Pyridine	ND	1.828	14.8	18.2	40	140	UJ Flag
SW6010D	CLMW-01-Z37-38	MS	Barium	44.9	17.26	64.3	117	75	125	J Flag
		MS/MSD	Calcium	9060	138.0	-2870	-973	75	125	None – 4X
		MSD	Chromium	13.8	17.26	81.2	137	75	125	J Flag
		MS/MSD	Manganese	257	17.26	-146	263	75	125	None – 4X
		MS/MSD	Potassium	1230	138.0	64.8	260	75	125	None – 4X
		MS/MSD	Aluminum	5600	17.26	1840	7860	75	125	None – 4X
		MS/MSD	Antimony	ND	17.26	37.9	35.5	75	125	UJ Flag
		MS/MSD	Magnesium	3200	138.0	-164	128	75	125	None – 4X

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Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS %Rec.	MSD %Rec.	Low Limit	High Limit	Sample Qualifier
		MS/MSD	Iron	11400	138.0	692	1890	75	125	None – 4X
SW6010D	CLMW-04-Z14-15	MS	Aluminum	6510	18.34	7840	N/A	75	125	None – 4X
		MS	Antimony	ND	18.34	26.8	N/A	75	125	UJ Flag
		MS	Barium	45.8	18.34	214	N/A	75	125	J Flag
		MS	Calcium	1730	146.7	318	N/A	75	125	None – 4X
		MS	Iron	12100	146.7	2270	N/A	75	125	None – 4X
		MS	Magnesium	3540	146.7	609	N/A	75	125	None – 4X
		MS	Manganese	268	18.34	799	N/A	75	125	None – 4X
		MS	Nickel	15.5	18.34	127	N/A	75	125	J Flag
		MS	Potassium	1390	146.7	362	N/A	75	125	None – 4X
		MS	Selenium	ND	18.34	70.7	N/A	75	125	UJ Flag
		MS	Sodium	762	146.7	192	N/A	75	125	None – 4X

Table 4A – List of MS/MSD RPDs outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
SW8260D	CLMW-05-Z44-45	1,2-Dibromo-3-chloropropane	30.8	30	None – ND
SW8270E	CLMW-01-Z37-38	3,3-Dichlorobenzidine	30.8	30	None – ND
		4,6-Dinitro-2-methylphenol	31.6	30	None – ND
SW8081B	CLMW-01-Z37-38	alpha-BHC	36.8	30	None – ND
		delta-BHC	63.8	30	None – ND
		gamma-BHC (Lindane)	34.7	30	None – ND
		Endosulfan I	48.7	30	None – ND
		Endosulfan II	56.9	30	None – ND
		Endrin Aldehyde	33.0	30	None – ND
SW6010D	CLMW-01-Z37-38	Calcium	40.1	35	None – 4X

Table 5 - List of LCS Recoveries outside Control Limits

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8260D	B391462	LCSD	Acetone	79.0	67.4	70	160	FB-241030	J Flag
SW8270E	B391397	LCS/LCSD	Caprolactam	26.2	26.6	40	140	FB-241030	UR Flag
		LCS	2,4-Dinitrophenol	21.4	52.2	30	130		UR Flag
		LCS	Hexachloroethane	36.7	40.0	40	140		UR Flag

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Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8270E	B391425	LCS/LCSD	Hexachlorocyclopentadiene	29.0	24.3	40	140	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49	UR Flag
		LCS/LCSD	Pyridine	23.8	18.3	30	140		UR Flag
SW6010D	B391603	LCSD	Manganese	109	129	80.7	118.9	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49 CLMW-02-Z17-18 CLMW-02-Z28-29 CLMW-02-Z34-35 CLMW-02-Z45-46 CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45	J+ Flag
SW8270E	B391875	LCS/LCSD	Pyridine	19.4	17.0	30	140	CLMW-02-Z17-18 CLMW-02-Z28-29 CLMW-02-Z34-35 CLMW-02-Z45-46 CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45	UR Flag
SW8260D	B392083	LCS/LCSD	Acetone	60.4	61.2	70	160	FB-241106	UJ Flag

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Date Completed: January 3, 2024	Prepared by: Christa Baker; Eridania Marte

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
		LCS/LCSD	1,1-Dichloroethylene	60.6	63.3	70	130		UJ Flag
		LCS	Methylene Chloride	67.8	77.3	70	130		UJ Flag
SW8270E	B391939	LCS/LCSD	Hexachlorocyclopentadiene	27.1	25.4	40	140	CLMW-04-Z14-15 CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	UR Flag
		LCS/LCSD	Pyridine	24.1	24.2	30	140		UR Flag
SW8270E	B391980	LCS/LCSD	Caprolactam	35.4	34.6	40	140	FB-241106	UR Flag
SW8081B	B391979	LCS/LCSD	Endrin	82.6	0.899	40	140	FB-241106	UR Flag

Table 5A – List of LCS/LCSD RPDs outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
SW8270E	B391397-BS1 B391397-BSD1	2,3,4,6-Tetrachlorophenol	25.2	50	FB-241030	None – ND
		2,4-Dinitrophenol	83.7	50		None – ND
SW8270E	B391425-BS1 B391425-BSD1	Benzaldehyde	27.7	20	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49	None – ND
SW9014	B391415-BS1 B391415-BSD1	Cyanide	40.4	30	CLMW-06-Z25-26 CLMW-06-Z36-37	None – ND
SW8151A	WG1996223-2 WG1996223-3	Dalapon	31	25	FB-241106	None – ND
SW8260D	B392083-BS1 B392083-BSD1	Bromochloromethane	28.1	25	FB-241106	None – ND
		tert-Butyl Alcohol (TBA)	25.5	25		None – ND
		Diisopropyl Ether (DIPE)	28.1	25		None – ND
SW8081B	B391979-BS1 B391979-BSD1	Dieldrin	33.8	20	FB-241106	None – ND
		Endrin	196	20		None – ND
		Endrin Ketone	46.3	20		None – ND

Table 5B – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
SW8260D	S113406-CCV2	CCV	Ethanol	-58.5	20	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49	UJ Flag
SW8260D	S113482-CCV1	CCV	Carbon Tetrachloride	21.8	20	FB-241030	UJ Flag
			Acetone	-21.0	20		J Flag
			Benzene	21.3	20		UJ Flag
			Dichlorodifluoromethane	29.8	20		UJ Flag
SW8270E	2401184	ICAL	Dibenz(a,h)anthracene	21.3	20	FB-241030	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S113405-CCV1	CCV	2,4-Dinitrophenol	-31.2	20	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49	UJ Flag
			Hexachlorocyclopentadiene	-66.9	20		UJ Flag
			Pentachlorophenol	-31.2	20		UJ Flag
SW8270E	S113405-CCV2	CCV	2,3,4,6-Tetrachlorophenol	102	20		UJ Flag
			Caprolactam	34.6	20		UJ Flag
SW8270E	S108638-ICV1	ICV	2,3,4,6-Tetrachlorophenol	125	30	CLMW-03-Z12-13 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43 CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49 CLMW-04-Z14-15	UJ Flag
			4-Chloroaniline	-30.4	30		UJ Flag
			Pyridine	-40.9	30		UJ Flag

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
						CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	
SW8270E	S113334-ICV1	ICV	Pyridine	-37.0	30	FB-241030	UJ Flag
SW8260D	S111840-ICV1	ICV	Ethanol	-78.0	30	CLMW-02-Z17-18 CLMW-02-Z28-29 CLMW-02-Z34-35 CLMW-02-Z45-46 CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45 CLMW-04-Z14-15 CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	UJ Flag
SW8260D	S113485-CCV2	CCV	Ethanol	-32.0	30	CLMW-02-Z17-18 CLMW-02-Z28-29 CLMW-02-Z34-35 CLMW-02-Z45-46 CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45	UJ Flag
SW8270E	S111153-ICV1	ICV	4-Chloroaniline	-34.5	30	CLMW-02-Z17-18 CLMW-02-Z28-29	UJ Flag

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Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
			Pyridine	-42.3	30	CLMW-02-Z34-35 CLMW-02-Z45-46 CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45	UJ Flag
SW8270E	S113829-CCV2	CCV	Benzaldehyde	-26.1	20		UJ Flag
SW8151A	WG1994625-4	CCV	2,4-DB	-37	15	FB-241030	UJ Flag
SW8151A	WG1996759-2	CCV	2,4,5-T	-15.1	15	CLMW-06-Z25-26 CLMW-06-Z36-37 CLMW-06-Z42-43 CLMW-06-Z48-49 CLMW-03-Z21-22 CLMW-03-Z35-36 CLMW-03-Z42-43	UJ Flag
			2,4-DB	-34.6	15		UJ Flag
SW8151A	WG1998211-5	CCV	2,4,5-T	-18.2	15	CLMW-03-Z12-13 CLMW-01-Z37-38	UJ Flag
			2,4-DB	-35.8	15		UJ Flag
SW8151A	WG1996759-4	CCV	2,4-DB	-24.7	15	CLMW-05-Z11-12 CLMW-05-Z24-25 CLMW-05-Z34-35 CLMW-05-Z34-35Q CLMW-05-Z44-45	UJ Flag
SW8151A	WG1998211-2	CCV	2,4-DB	-23.5	15	CLMW-02-Z17-18 CLMW-02-Z28-29 CLMW-02-Z34-35 CLMW-02-Z45-46	UJ Flag
SW8151A	WG1996759-5	CCV	2,4-DB	-23.5	15	FB-241106	UJ Flag
SW8260D	S113681-CCV1	CCV	Naphthalene	-20.8	20	CLMW-04-Z14-15 CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	UJ Flag
SW8260D	S113681-CCV2	CCV	Ethanol	-44.3	20		UJ Flag
SW8260D	S113975-CCV1	CCV	Acetone	-27.5	20	FB-241106	UJ Flag

Data Usability Summary Report	Project: Court & Luquer St Soil
Date Completed: January 3, 2024	Prepared by: Christa Baker; Eridania Marte

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
			Benzene	21.4	20		UJ Flag
			Ethanol	24.0	20		UJ Flag
			Methylene Chloride	22.4	20		UJ Flag
SW8270E	2401244	ICAL	Dibenz(a,h)anthracene	21.3	20	FB-241106	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S114725-ICV1	ICV	Pyridine	-37.0	30	FB-241106	UJ Flag
SW8270E	S113897-CCV1	CCV	2,4-Dinitrophenol	-26.1	20	CLMW-04-Z14-15 CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	UJ Flag
			Hexachlorocyclopentadiene	-67.6	20		UJ Flag
			Pentachlorophenol	-31.7	20		UJ Flag
	S113897-CCV2	CCV	2,3,4,6-Tetrachlorophenol	79.7	20		UJ Flag
			Benzaldehyde	-22.9	20		UJ Flag
SW8270E	S113934-CCV1	CCV	Aniline	-34.9	20	FB-241106	UJ Flag
			Pyrene	22.2	20		UJ Flag
			Pyridine	-20.3	20		UJ Flag
SW8082A	S113736-ICV1	ICV	Aroclor-1016 (5)	35.2	20	FB-241106	None – ND
	S113739-ICV1	ICV	Aroclor-1248 (1)	-20.2	20	FB-241106	None – ND
	S113740-ICV1	ICV	Aroclor-1242 (5)	-22.3	20	FB-241106	None – ND
	S113741-ICV1	ICV	Aroclor-1268 (4)	20.5	20	FB-241106	None – ND
	S113742-ICV1	ICV	Aroclor-1221 (3)	-23.7	20	FB-241106	None – ND
			Aroclor-1262 (1)	21.9	20		None – ND
			Aroclor-1262 (4)	22.4	20		None – ND
SW8082A	S114021-ICV1	ICV	Aroclor-1242 (1)	30.4	20	CLMW-04-Z14-15 CLMW-04-Z22-23 CLMW-04-Z33-34 CLMW-04-Z45-46 CLMW-04-Z45-46Q CLMW-01-Z12-13 CLMW-01-Z37-38	None – ND

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-03-Z12-13	24J4506-05	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-03-Z21-22	24J4506-06	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-03-Z35-36	24J4506-07	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-03-Z42-43	24J4506-08	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-06-Z25-26	24J4506-01	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-06-Z36-37	24J4506-02	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-06-Z42-43	24J4506-03	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-06-Z48-49	24J4506-04	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-02-Z17-18	24K0174-06	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-02-Z28-29	24K0174-07	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-02-Z34-35	24K0174-08	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-02-Z45-46	24K0174-09	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-05-Z11-12	24K0174-01	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-05-Z24-25	24K0174-02	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-05-Z34-35	24K0174-03	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-05-Z34-35Q	24K0174-04	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.
CLMW-05-Z44-45	24K0174-05	SW8082A	4X	Sample was diluted. Elevated reporting limits are provided, which may impact data usability for non-detect results.

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-01-Z12-13	24K0481-06	SW6010D	10X	Sample was diluted for iron and calcium. Elevated reporting limits are provided. There is no impact on data usability.
CLMW-01-Z37-38	24K0481-07	SW6010D	10X	Sample was diluted for iron. Elevated reporting limits are provided. There is no impact on data usability.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	CLMW-05-Z34-35	CLMW-05-Z34-35Q	RPD	RPD Rating	Sample Qualifier
8260D	Tetrachloroethene (PCE)	mg/kg	SO	0.0016	0.00077	ND	NC	None	None - <2X PQL
A2540G	Solids, Percent	%	SO	N/A	89.9	89.5	0.4%	Good	None
SW6010D	Aluminum	mg/kg	SO	18	5500	4500	20.0%	Good	None
SW6010D	Iron	mg/kg	SO	18	11000	9200	17.8%	Good	None
SW6010D	Lead	mg/kg	SO	0.54	5.7	5.1	11.1%	Good	None
SW6010D	Magnesium	mg/kg	SO	18	3000	2500	18.2%	Good	None
SW6010D	Manganese	mg/kg	SO	0.36	280	320	13.3%	Good	None
SW6010D	Nickel	mg/kg	SO	0.72	10	8.6	15.1%	Good	None
SW6010D	Sodium	mg/kg	SO	180	620	580	6.7%	Good	None
SW6010D	Arsenic	mg/kg	SO	3.6	3.7	3.4	8.5%	Good	None
SW6010D	Barium	mg/kg	SO	1.8	38	31	20.3%	Good	None
SW6010D	Beryllium	mg/kg	SO	0.18	0.39	0.32	19.7%	Good	None
SW6010D	Chromium, Total	mg/kg	SO	0.72	13	9.8	28.1%	Good	None
SW6010D	Cobalt	mg/kg	SO	1.8	4.9	4.0	20.2%	Good	None
SW6010D	Copper	mg/kg	SO	1.4	15	14	6.9%	Good	None
SW6010D	Vanadium	mg/kg	SO	0.72	19	16	17.1%	Good	None
SW6010D	Zinc	mg/kg	SO	0.72	22	19	14.6%	Good	None
SW6010D	Calcium	mg/kg	SO	18	1600	1200	28.6%	Good	None
SW6010D	Potassium	mg/kg	SO	180	1100	850	25.6%	Good	None

Method	Analyte	Unit	Matrix	PQL	CLMW-04-Z45-46	CLMW-04-Z45-46Q	RPD	RPD Rating	Sample Qualifier
8260D	Tetrachloroethene (PCE)	mg/kg	SO	0.0019	0.0050	0.0061	19.8%	Good	None
A2540G	Solids, Percent	%	SO	N/A	86.8	86.0	0.9%	Good	None
SW6010D	Aluminum	mg/kg	SO	17	2600	2500	3.9%	Good	None

Method	Analyte	Unit	Matrix	PQL	CLMW-04-Z45-46	CLMW-04-Z45-46Q	RPD	RPD Rating	Sample Qualifier
SW6010D	Iron	mg/kg	SO	17	6500	6200	4.7%	Good	None
SW6010D	Magnesium	mg/kg	SO	17	1500	1400	6.9%	Good	None
SW6010D	Manganese	mg/kg	SO	0.34	160	170	6.1%	Good	None
SW6010D	Nickel	mg/kg	SO	0.68	5.4	5.5	1.8%	Good	None
SW6010D	Potassium	mg/kg	SO	170	420	450	6.9%	Good	None
SW6010D	Sodium	mg/kg	SO	170	120	140	15.4%	Good	None
SW6010D	Barium	mg/kg	SO	1.7	26	26	0.0%	Good	None
SW6010D	Beryllium	mg/kg	SO	0.17	0.18	0.19	5.4%	Good	None
SW6010D	Chromium, Total	mg/kg	SO	0.68	5.2	5.4	3.8%	Good	None
SW6010D	Cobalt	mg/kg	SO	1.7	2.7	2.5	7.7%	Good	None
SW6010D	Vanadium	mg/kg	SO	0.68	15	14	6.9%	Good	None
SW6010D	Calcium	mg/kg	SO	17	940	910	3.2%	Good	None
SW6010D	Lead	mg/kg	SO	0.51	2.4	2.7	11.8%	Good	None
SW6010D	Copper	mg/kg	SO	1.4	16	14	13.3%	Good	None
SW6010D	Zinc	mg/kg	SO	0.68	14	14	0.0%	Good	None

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FB	=	field blank
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
mg/kg	=	milligrams per kilogram
mg/L	=	milligrams per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
ND	=	not detected
NP	=	not provided
NYSDEC	=	New York State Department of Environmental Conservation
PCB	=	polychlorinated biphenyl
PFAS	=	per- and polyfluoroalkyl substances
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SIM	=	selective ion monitoring
SDG	=	sample delivery group
SO	=	soil

Acronym List and Table Key:

SVOC	=	semi-volatile organic compounds
TIC	=	tentatively identified compounds
TB	=	trip blank
TRG	=	target compound
VOC	=	volatile organic compounds
WQ	=	water quality control matrix
%D	=	percent difference
%RSD	=	percent relative standard deviation

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*
    - *SOP NO. QA-HWSS-A-005, Rev. 0, Standard Operating Procedure for Validation of Semivolatile Data*
    - *SOP NO. QA-HWSS-A-007, Rev. 0, Standard Operating Procedure for Validation of Pesticide Data*
    - *SOP NO. QA-HWSS-A-006, Rev. 0, Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data*
    - *SOP NO. QA-HWSS-A-010, Rev. 0, Standard Operating Procedure for the Validation of ICP-AES Data*
    - *SOP NO. QA-HWSS-A-011, Rev. 0, Standard Operating Procedure for Validation of Mercury Data*
    - *SOP NO. QA-HWSS-A-012, Rev. 0, Standard Operating Procedure for Validation of Cyanide Data*
- US DoD Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EEA1705007.6488	24K1406	Con-test, A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24K1406	WG	CLMW-05I	24K1406-01	2024/11/15 10:10	MS/MSD	
24K1406	WG	CLMW-05S	24K1406-02	2024/11/15 10:10		
24K1406	WQ	Trip Blank	24K1406-03	2024/11/15 00:00	TB	Trip Blank-11152024

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1406	WG	SW8260D	Volatile Organic Compounds by GC/MS	2	N
24K1406	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	TB
24K1406	WG	SW8270E	Semivolatile Organic Compounds by GC/MS	2	N
24K1406	WG	SW8270DSIM	1,4-Dioxane by GC/MS SIM	2	N
24K1406	WQ	SW8270DSIM	1,4-Dioxane by GC/MS SIM	2	N
24K1406	WG	SW8081B	Organochlorine Pesticides by GC	2	N

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1406	WG	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	2	N
24K1406	WG	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	2	N
24K1406	WG	SW6010D	Metals by ICP-AES	2	N
24K1406	WG	SW7470A	Mercury in Liquid Wastes	2	N
24K1406	WG	SW9014	Cyanide	2	N

Data Usability Summary Report	Project: Court & Luquer St GW
Date Completed: January 3, 2024	Prepared by: Christa Baker; Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Sample ID Trip Blank was updated to Trip Blank-11152024 to make the ID unique.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Field Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	Yes. No field duplicates or field blanks collected with this SDG. Overall QC frequency is correct. 1 MS/MSD collected per 2 samples. 1 trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	No. Sample CLMW-05S was frozen for PFAS analysis to extend the hold time to 90 days.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A)
- Surrogates Outside Limits (Table 3)
- Internal Standards Outside Limits (Table 3A)
- Isotope Dilution Analytes Outside Limits (Table 3B)
- Ion Ratios Outside Limits (Table 3C)
- MS/MSD Outside Limits (Table 4 and 4A)
- LCS/LCSD Outside Limits (Table 5 and 5A)
- ICV/CCV Outside Limits (Table 5B)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. 14 analytes recovered above upper limits in the MS and/or MSD for sample CLMW-05I. Most associated results were non-detect and did not require qualification; however, tetrachloroethene and bromodichloromethane were J qualified as estimated in the parent sample.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,3-Trichlorobenzene recovered above upper limits in the LCSD associated with batch B392861. The associated results were non-detect; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. 2-Butanone (MEK) and 1,2,3-trichlorobenzene recovered outside limits in CCV S114483-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Not applicable.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants,	Not applicable.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
then "U" flag data. Qualification also applies to TICs.	
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Caprolactam, 3-nitroaniline, and pyridine recovered below lower limits in the MS and MSD for sample CLMW-05I. The associated results were non-detect and were UJ qualified as estimated non-detect. 3,3-Dichlorobenzidine and 4-nitroaniline recovered below 10% in the MS/MSD and were UR qualified as unusable non-detect in the parent sample. Benzo(a)pyrene, di-n-octylphthalate, indeno(1,2,3-cd)pyrene, and pyridine exhibited poor precision between the MS and MSD for sample CLMW-05I. The associated results were non-detect and were not qualified.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Caprolactam recovered below the lower limit in LCS/LCSD B392794-BS1 and B392794-BSD1. 2,4-Dinitrophenol and hexachloroethane also recovered below lower limits in LCSD B392794-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. 17 analytes exhibited poor precision between LCS and LCSD samples B392794-BS1 and B392794-BSD1. The associated results were non-detect and were not qualified.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit (see Table 5B)?	No. Dibenz(a,h)anthracene, 2,4-dinitrophenol, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene recovered outside limits in initial calibration 2401244. The associated results were non-detect and were not qualified.
Is %D in the initial calibration verification for target compounds less than method specifications (see Table 5B)?	No. Pyridine recovered outside limits in ICV S114725-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. Aniline and caprolactam recovered outside limits in CCV S114358-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect. Aniline, 2,3,4,6-tetrachlorophenol, and caprolactam recovered outside limits in CCV S114460-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Not applicable.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Are pesticide breakdowns within limits?	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	Yes.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	Yes.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Not applicable.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D? (See Table 5B)	No. Aroclor-1242 recovered outside limits in ICV S114021-ICV1. The associated results were non-detect and were not qualified.
Is continuing calibration for target compounds <20%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Acceptable.
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are <RL, U flag data; if >RL but <5 times the blank contaminants, then "J+" flag data.	Not applicable.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3B). If out, and recovery is high with no positive values, then no data qualification is required.	Multiple IDA recoveries were outside control limits in CCBs S115363-CCB2, S115363-CCB3, S115363-CCB4, and S115363-CCB5. The associated results were non-detect and the bias was on the high side; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? Failures should not result in qualification if the native analyte concentration is greater than 3X the spike concentration.	No. Perfluorooctanoic acid (PFOA) and perfluorobutanesulfonic acid(PFBS) recovered above upper limits in the MS/MSD for sample CLMW-05I. The associated results were J+ qualified as estimated high.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria (see Table 3B)? Do transition mass ratios fall within acceptance limits (see Table 3C)?	Yes.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)? Does the bile salts standard include all required bile salts and achieve required separation for samples where PFOS is detected?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are < 5 times the blank then "U" flag data.	Lead was detected below the PQL in MB B394526-BLK3. The associated result in CLMW-05S was also

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
	below the PQL and was U qualified as non-detect. The MDL was elevated to the original sample result.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	No. Calcium and sodium recovered above upper limits in the MS and MSD for sample CLMW-05I. The associated results were greater than four times the spike amount and were not qualified.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Samples CLMW-05I and CLMW-05S were reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Is calibration low level verification (CCVL) within QC criteria of 70-130% recovery? If not was sample re-analyzed to establish criteria?	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 95-105%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check ICB and CCB +/- RL. Contact lab if unacceptable.	Lead was detected below the PQL in S115510-CCB4. The associated result in CLMW-05S was also below the PQL and was U qualified as non-detect. The MDL was elevated to the original sample result. Arsenic was detected in S115510-CCB1 below the PQL. The associated result in CLMW-05S was also below the PQL and was U qualified as non-detect. The MDL was elevated to the original sample result.
Do field duplicate results show good precision for all compounds (see Table 6)?	Not applicable.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is there one serial dilution for each analytical batch?	A serial dilution was not reported for mercury analysis. All of the sample results were non-detect.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check CRA/ICVL/CCVL 70-130%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 80-120%. Contact lab if unacceptable.	Acceptable.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

N – Indicates presumptive evidence of a compound. This flag is used for a tentatively identified compound, where the identification is based on a mass spectral library search.

UJ – The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was non-detect and was rejected and considered unusable due to quality control anomalies.

Summary of Findings

VOCs
- Tetrachloroethene and bromodichloromethane were J qualified in CLMW-05I due to poor recovery in the associated MS/MSD.
- 2-Butanone (MEK) and 1,2,3-trichlorobenzene were UJ qualified in CLMW-05I, CLMW-05S, and Trip Blank-11152024 due to poor recovery in the associated CCV.

SVOCs
- Caprolactam, 3-nitroaniline, and pyridine were UJ qualified in CLMW-05I due to poor recovery in the associated MS/MSD.
- 3,3-Dichlorobenzidine and 4-nitroaniline were UR qualified in CLMW-05I due to recovery below 10% in the associated MS/MSD.
- Caprolactam, 2,4-dinitrophenol, and hexachloroethane were UR qualified in CLMW-05I and CLMW-05S due to low recovery in the associated LCS.
- Pyridine was UJ qualified in CLMW-05I and CLMW-05S due to poor recovery in the associated ICV.
- 2,3,4,6-Tetrachlorophenol, aniline, and caprolactam were UJ qualified in CLMW-05I and CLMW-05S due to poor recovery in the associated CCV.

Pesticides
- None.

PCBs
- None.

PFAS
- Perfluorooctanoic acid (PFOA) and perfluorobutanesulfonic acid (PFBS) were J+ qualified in sample CLMW-05I due to high recovery in the associated MS/MSD.

Metals
- Arsenic and lead were U qualified in CLMW-05S due to contamination in the associated blanks.

Mercury
- None.

Cyanide
- None.

Table 2 – List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW6010D	S115510-CCB1	CCB	Arsenic	0.0077		mg/L		0.010
SW6010D	S115510-CCB4	CCB	Lead	0.0099		mg/L		0.010
SW6010D	B394526-BLK3	MB	Lead	0.0060	JB	mg/L	0.0044	0.010

Table 2A – List of Samples Qualified for Method Blank Contamination

Method	Blank Sample	Blank Type	Analyte	Blank Result	Sample Result	Lab Qual	Units	MDL	PQL	Affected Sample	Qualifier
SW6010D	B394526-BLK3	MB	Lead	0.0060	0.0060	JB	mg/L	0.0044	0.01	CLMW-05S	U Flag
SW6010D	S115510-CCB1	CCB	Arsenic	0.0077	0.0053	J	mg/L	0.005	0.01	CLMW-05S	U Flag

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 3A – Internal Standards Outside Control Limits
None.

Table 3B – List of Samples with Isotope Dilution Analytes outside Control Limits

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
E1633	S115363-CCB2	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			13C2-6:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	None – QC
			D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115363-CCB3	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			D3-NMeFOSAA	High	NP	NP	N-MeFOSAA (NMeFOSAA)	None – QC
			D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115363-CCB4	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115363-CCB5	CCB	13C2-4:2FTS	High	NP	NP	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – QC
			D3-NMeFOSAA	High	NP	NP	N-MeFOSAA (NMeFOSAA)	None – QC

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
			D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC

Table 3B – List of Ion Ratios outside Control Limits
None.

Table 4 – List of MS/MSD Recoveries outside Control Limits

Table 4A – List of MS/MSD RPDs outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
SW8270E	CLMW-05I	Benzo(a)pyrene	32.1	30	None – ND
		Di-n-octylphthalate	30.6	30	None – ND
		Indeno(1,2,3-cd)pyrene	31.8	30	None – ND
		Pyridine	51.3	30	None – ND

Table 5 - List of LCS Recoveries outside Control Limits

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8260D	B392861	LCSD	1,2,3-Trichlorobenzene	130	131	70	130	CLMW-05I CLMW-05S Trip Blank-11152024	None – High & ND
SW8270E	B392794	LCS/LCSD	Caprolactam	31.6	31.4	40	140	CLMW-05I CLMW-05S	UR Flag
		LCSD	2,4-Dinitrophenol	75.7	27.1	30	130		UR Flag
		LCSD	Hexachloroethane	43.3	37.0	40	140		UR Flag

Table 5A – List of LCS/LCSD RPDs outside Control Limits

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
SW8270E	B392794-BS1 B392794-BSD1	2,3,4,6-Tetrachlorophenol	52.7	20	CLMW-05I CLMW-05S	None – ND
		Biphenyl	21.5	20		None – ND
		Acenaphthene	20.5	20		None – ND
		2-Chloronaphthalene	30.1	20		None – ND
		2-Chlorophenol	32.6	20		None – ND
		2,4-Dichlorophenol	36.5	20		None – ND
		4,6-Dinitro-2-methylphenol	51.8	50		None – ND
		2,4-Dinitrophenol	94.5	50		None – ND
		Hexachlorobutadiene	23.6	50		None – ND

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
		1-Methylnaphthalene	22.9	20		None – ND
		2-Nitrophenol	47.8	20		None – ND
		4-Nitrophenol	72.7	50		None – ND
		Pentachlorophenol	57.7	50		None – ND
		Phenol	24.7	20		None – ND
		1,2,4,5-Tetrachlorobenzene	33.0	20		None – ND
		2,4,5-Trichlorophenol	48.8	20		None – ND
		2,4,6-Trichlorophenol	53.1	50		None – ND

Table 5B – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
SW8260D	S114483-CCV1	CCV	2-Butanone (MEK)	-26.1	20	CLMW-05I CLMW-05S Trip Blank-11152024	UJ Flag
			1,2,3-Trichlorobenzene	27.4	20		UJ Flag
SW8270E	2401244	ICAL	Dibenz(a,h)anthracene	21.3	20	CLMW-05I CLMW-05S	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S114725-ICV1	ICV	Pyridine	-37.0	30	CLMW-05I CLMW-05S	UJ Flag
SW8270E	S114358-CCV1	CCV	Aniline	-27.7	20	CLMW-05I CLMW-05S	UJ Flag
SW8270E	S114358-CCV2	CCV	Caprolactam	30.9	20		UJ Flag
SW8270E	S114460-CCV1	CCV	Aniline	-22.8	20		UJ Flag
SW8270E	S114460-CCV2	CCV	2,3,4,6-Tetrachlorophenol	21.6	20		UJ Flag
			Caprolactam	24.7	20		UJ Flag
SW8082A	S114021-ICV1	ICV	Aroclor-1242 (1)	30.4	20	CLMW-05I CLMW-05S	None – ND

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-05I	24K1406-01	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-05S	24K1406-02	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.

Table 7 – Summary of Field Duplicate Results
Not applicable.

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MB	=	method blank
MDL	=	method detection limit
mg/L	=	milligrams per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
ND	=	not detected
NP	=	not provided
NYSDEC	=	New York State Department of Environmental Conservation
PCB	=	polychlorinated biphenyl
PFAS	=	per- and polyfluoroalkyl substances
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SIM	=	selective ion monitoring
SDG	=	sample delivery group
SO	=	soil
SVOC	=	semi-volatile organic compounds
TIC	=	tentatively identified compounds
TB	=	trip blank
VOC	=	volatile organic compounds
WQ	=	water quality control matrix

Acronym List and Table Key:

%D = percent difference

%RSD = percent relative standard deviation

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*
    - *SOP NO. QA-HWSS-A-005, Rev. 0, Standard Operating Procedure for Validation of Semivolatile Data*
    - *SOP NO. QA-HWSS-A-007, Rev. 0, Standard Operating Procedure for Validation of Pesticide Data*
    - *SOP NO. QA-HWSS-A-006, Rev. 0, Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data*
    - *SOP NO. QA-HWSS-A-010, Rev. 0, Standard Operating Procedure for the Validation of ICP-AES Data*
    - *SOP NO. QA-HWSS-A-011, Rev. 0, Standard Operating Procedure for Validation of Mercury Data*
    - *SOP NO. QA-HWSS-A-012, Rev. 0, Standard Operating Procedure for Validation of Cyanide Data*
- US DoD Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EEA1705007.6488	24K1416	Con-test, A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24K1416	WG	CLMW-01S	24K1416-01	2024/11/13 16:10		
24K1416	WG	CLMW-04I	24K1416-02	2024/11/14 11:45		
24K1416	WG	CLMW-04S	24K1416-03	2024/11/14 14:05		
24K1416	WQ	Field Blank	24K1416-04	2024/11/14 15:20	FB	Field Blank-11142024
24K1416	WQ	Trip Blank	24K1416-05	2024/11/14 00:00	TB	Trip Blank-11142024

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1416	WG	SW8260D	Volatile Organic Compounds by GC/MS	3	N
24K1416	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	TB
24K1416	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	FB

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1416	WG	SW8270E	Semivolatile Organic Compounds by GC/MS	3	N
24K1416	WQ	SW8270E	Semivolatile Organic Compounds by GC/MS	1	FB
24K1416	WG	SW8270D SIM	1,4-Dioxane by GC/MS SIM	3	N
24K1416	WQ	SW8270D SIM	1,4-Dioxane by GC/MS SIM	1	FB
24K1416	WG	SW8081B	Organochlorine Pesticides by GC	3	N
24K1416	WQ	SW8081B	Organochlorine Pesticides by GC	1	FB
24K1416	WG	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	3	N
24K1416	WQ	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	1	FB
24K1416	WG	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	3	N
24K1416	WQ	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	1	FB
24K1416	WG	SW6010D	Metals by ICP-AES	3	N
24K1416	WQ	SW6010D	Metals by ICP-AES	1	FB
24K1416	WG	SW7470A	Mercury in Liquid Wastes	3	N
24K1416	WQ	SW7470A	Mercury in Liquid Wastes	1	FB
24K1416	WG	SW9014	Cyanide	3	N
24K1416	WQ	SW9014	Cyanide	1	FB

Data Usability Summary Report	Project: Court & Luquer St GW
Date Completed: January 6, 2024	Prepared by: Christa Baker; Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Sample IDs Field Blank and Trip Blank were updated to Field Blank-11142024 and Trip Blank-11142024, respectively, to make the IDs unique.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Field Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	Yes. No field duplicates or MS/MSDs collected with this SDG. Overall QC frequency is correct. 1 field blank collected. 1 trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	Yes. CLMW-01S was extracted past the recommended holding time for semivolatiles and pesticides analyses. The associated results were all non-detect and were UJ qualified as estimated non-detect.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A)
- Surrogates Outside Limits (Table 3)
- Internal Standards Outside Limits (Table 3A)
- Isotope Dilution Analytes Outside Limits (Table 3B)
- Ion Ratios Outside Limits (Table 3C)
- MS/MSD Outside Limits (Table 4 and 4A)
- LCS/LCSD Outside Limits (Table 5 and 5A)
- ICV/CCV Outside Limits (Table 5B)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,3-Trichlorobenzene recovered above upper limits in the LCSD associated with batch B392861. The associated results were non-detect; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. 2-Butanone (MEK) and 1,2,3-trichlorobenzene recovered outside limits in S114483-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Sample CLMW-01S was diluted due to high concentrations of target compounds. Elevated reporting limits are provided, which may impact data usability for non-detects.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Caprolactam recovered below the lower limit in LCS/LCSD B392794-BS1 and B392794-BSD1. 2,4-Dinitrophenol and hexachloroethane also recovered below lower limits in B392794-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. 17 analytes exhibited poor precision between B392794-BS1 and B392794-BSD1. The associated results were non-detect and were not qualified.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit (see Table 5B)?	No. Dibenz(a,h)anthracene, 2,4-dinitrophenol, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene recovered outside limits in initial calibration 2401244. The associated results were non-detect and were not qualified.
Is %D in the initial calibration verification for target compounds less than method specifications (see Table 5B)?	No. Pyridine recovered outside limits in ICV S114725-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. Aniline and caprolactam recovered outside limits in CCV S114358-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect. Aniline, 2,3,4,6-tetrachlorophenol, and caprolactam recovered outside limits in CCV S114460-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Are pesticide breakdowns within limits?	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	Yes.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D? (See Table 5B)	No. Aroclor-1242 recovered outside limits in S114021-ICV1. The associated results were non-detect and were not qualified.
Is continuing calibration for target compounds <20%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Acceptable.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are <RL, U flag data; if >RL but <5 times the blank contaminants, then "J+" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3B). If out, and recovery is high with no positive values, then no data qualification is required.	D5-NEtFOSAA recoveries were outside control limits in S115487-CCB2 and S115487-CCB3. The associated results were non-detect and the bias was on the high side; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Is MS/MSD within QC criteria (see Table 4)? Failures should not result in qualification if the native analyte concentration is greater than 3X the spike concentration.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria (see Table 3B)? Do transition mass ratios fall within acceptance limits (see Table 3C)?	No. The qualifier ion ratio for perfluorooctanesulfonic acid (PFOS) was less than 50% of the associated calibration in sample CLMW-04I. The associated result was J qualified as estimated.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)? Does the bile salts standard include all required bile salts and achieve required separation for samples where PFOS is detected?	No. Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) recovered outside limits in S115308-CCV2 and S115308-CCV3. The associated result was non-detect and was UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are < 5 times the blank then "U" flag data.	Lead was detected below the PQL in MB B394526-BLK3. The associated results were non-detect for the affected analyte; therefore, no qualifications were made.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	An MS/MSD was not provided with this SDG.
Were elements recovered ≤30%? If so, “R” flag associated NDs.	Not applicable.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. CLMW-04S was diluted for sodium. Elevated reporting limits are provided. There is no impact on data usability. All samples were reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Is calibration low level verification (CCVL) within QC criteria of 70-130% recovery? If not was sample re-analyzed to establish criteria?	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 95-105%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check ICB and CCB +/- RL. Contact lab if unacceptable.	Lead was detected below the PQL in CCB S115510-CCB4. The associated results were non-detect for the affected analyte; therefore, no qualifications were made. Arsenic was detected in CCB S115510-CCB1 below the PQL. The associated results were non-detect for the affected analyte; therefore, no qualifications were made.
Do field duplicate results show good precision for all compounds (see Table 6)?	A field duplicate was not provided with this SDG.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is there one serial dilution for each analytical batch?	A serial dilution was not reported for mercury analysis. All of the sample results were non-detect.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check CRA/ICVL/CCVL 70-130%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 80-120%. Contact lab if unacceptable.	Acceptable.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

N – Indicates presumptive evidence of a compound. This flag is used for a tentatively identified compound, where the identification is based on a mass spectral library search.

UJ – The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was non-detect and was rejected and considered unusable due to quality control anomalies.

Summary of Findings

VOCs
- 2-Butanone (MEK) and 1,2,3-trichlorobenzene were UJ qualified in CLMW-01S, CLMW-04I, CLMW-04s, Field Blank-11142024, and Trip Blank-11142024 due to poor recovery in the associated CCV .

SVOCs
- Caprolactam, 2,4-dinitrophenol, and hexachloroethane were UR qualified in CLMW-01S, CLMW-04I, CLMW-04s, and Field Blank-11142024 due to low recovery in the associated LCS.
- Pyridine was UJ qualified in CLMW-01S, CLMW-04I, CLMW-04s, and Field Blank-11142024 due to poor recovery in the associated ICV.
- 2,3,4,6-Tetrachlorophenol, aniline, and caprolactam were UJ qualified in CLMW-01S, CLMW-04I, CLMW-04s, and Field Blank-11142024 due to poor recovery in the associated CCV.

Pesticides
- None.

PCBs
- None.

PFAS
- Perfluorooctanesulfonic acid (PFOS) was J qualified in CLMW-04I due to a qualifier ion ration below 50% of the associated calibration.
- Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) was UJ qualified in CLMW-01S due to poor recovery in the associated CCV.

Metals
- None.

Mercury
- None.

Cyanide
- None.

Table 2 – List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW6010D	S115510-CCB1	CCB	Arsenic	0.0077		mg/L		0.010
SW6010D	S115510-CCB4	CCB	Lead	0.0099		mg/L		0.010
SW6010D	B394526-BLK3	MB	Lead	0.0060	JB	mg/L	0.0044	0.010

Table 2A – List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 3A – Internal Standards Outside Control Limits
None.

Table 3B – List of Samples with Isotope Dilution Analytes outside Control Limits

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
E1633	S115487-CCB2	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC
E1633	S115487-CCB3	CCB	D5-NEtFOSAA	High	NP	NP	N-EtFOSAA (NEtFOSAA)	None – QC

Table 3B – List of Ion Ratios outside Control Limits

Method	Sample ID	Sample Type	Analyte	Ratio	Lower Limit	Upper Limit	Sample Qualifier
E1633	CLMW-04I	N	Perfluorooctanesulfonic acid (PFOS)	20.0	22.35	67.05	J Flag

Table 4 – List of MS/MSD Recoveries outside Control Limits
Not applicable.

Table 4A – List of MS/MSD RPDs outside Control Limits
Not applicable.

Table 5 - List of LCS Recoveries outside Control Limits

Data Usability Summary Report	Project: Court & Luquer St GW
Date Completed: January 6, 2024	Prepared by: Christa Baker; Eridania Marte

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8260D	B392861	LCSD	1,2,3-Trichlorobenzene	130	131	70	130	CLMW-01S CLMW-04I CLMW-04S Trip Blank-11142024 Field Blank-11142024	None – High & ND
SW8270E	B392794	LCS/LCSD	Caprolactam	31.6	31.4	40	140	CLMW-01S CLMW-04I CLMW-04S Field Blank-11142024	UR Flag
		LCSD	2,4-Dinitrophenol	75.7	27.1	30	130		UR Flag
		LCSD	Hexachloroethane	43.3	37.0	40	140		UR Flag

Table 5A – List of LCS/LCSD RPDs outside Control Limits

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
SW8270E	B392794-BS1 B392794-BSD1	2,3,4,6-Tetrachlorophenol	52.7	20	CLMW-01S CLMW-04I CLMW-04S Field Blank-11142024	None – ND
		Biphenyl	21.5	20		None – ND
		Acenaphthene	20.5	20		None – ND
		2-Chloronaphthalene	30.1	20		None – ND
		2-Chlorophenol	32.6	20		None – ND
		2,4-Dichlorophenol	36.5	20		None – ND
		4,6-Dinitro-2-methylphenol	51.8	50		None – ND
		2,4-Dinitrophenol	94.5	50		None – ND
		Hexachlorobutadiene	23.6	50		None – ND
		1-Methylnaphthalene	22.9	20		None – ND
		2-Nitrophenol	47.8	20		None – ND
		4-Nitrophenol	72.7	50		None – ND
		Pentachlorophenol	57.7	50		None – ND
		Phenol	24.7	20		None – ND
		1,2,4,5-Tetrachlorobenzene	33.0	20		None – ND
		2,4,5-Trichlorophenol	48.8	20		None – ND
		2,4,6-Trichlorophenol	53.1	50		None – ND

Table 5B – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
SW8260D	S114483-CCV1	CCV	2-Butanone (MEK)	-26.1	20	CLMW-01S CLMW-04I	UJ Flag

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
			1,2,3-Trichlorobenzene	27.4	20	CLMW-04S Trip Blank-11142024 Field Blank-11142024	UJ Flag
SW8270E	2401244	ICAL	Dibenz(a,h)anthracene	21.3	20	CLMW-01S CLMW-04I CLMW-04S Trip Blank-11142024 Field Blank-11142024	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S114725-ICV1	ICV	Pyridine	-37.0	30	CLMW-01S CLMW-04I CLMW-04S Trip Blank-11142024 Field Blank-11142024	UJ Flag
SW8270E	S114358-CCV1	CCV	Aniline	-27.7	20	CLMW-01S CLMW-04I CLMW-04S Trip Blank-11142024 Field Blank-11142024	UJ Flag
SW8270E	S114358-CCV2	CCV	Caprolactam	30.9	20		UJ Flag
SW8270E	S114460-CCV1	CCV	Aniline	-22.8	20		UJ Flag
SW8270E	S114460-CCV2	CCV	2,3,4,6-Tetrachlorophenol	21.6	20		UJ Flag
			Caprolactam	24.7	20		UJ Flag
SW8082A	S114021-ICV1	ICV	Aroclor-1242 (1)	30.4	20	CLMW-01S CLMW-04I CLMW-04S Trip Blank-11142024 Field Blank-11142024	None – ND
E1633	S115308-CCV2	CCV	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	31.2	30	CLMW-01S	UJ Flag
	S115308-CCV3	CCV	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	32.5	30		

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-01S	24K1416-01	SW8260D	2X	Sample was diluted due to high concentrations of target compounds. Elevated reporting limits are provided, which may impact data usability for non-detects.

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-04S	24K1416-03	SW6010D	50X	Sample was diluted for sodium. Elevated reporting limits are provided. There is no impact on data usability.
CLMW-01S	24K1416-01	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.
CLMW-04I	24K1416-02	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.
CLMW-04S	24K1416-03	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.
Field Blank-11142024	24K1416-04	SW6010D	1X	Sample was reanalyzed for copper, zinc, selenium, and nickel. Results are reported from the reanalysis.

Table 7 – Summary of Field Duplicate Results
Not applicable.

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FB	=	field blank
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MB	=	method blank
MDL	=	method detection limit
mg/L	=	milligrams per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
ND	=	not detected
NP	=	not provided
NYSDEC	=	New York State Department of Environmental Conservation
PCB	=	polychlorinated biphenyl
PFAS	=	per- and polyfluoroalkyl substances
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SIM	=	selective ion monitoring
SDG	=	sample delivery group
SO	=	soil
SVOC	=	semi-volatile organic compounds
TIC	=	tentatively identified compounds
TB	=	trip blank
VOC	=	volatile organic compounds

Acronym List and Table Key:

WQ = water quality control matrix
%D = percent difference
%RSD = percent relative standard deviation

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*
    - *SOP NO. QA-HWSS-A-005, Rev. 0, Standard Operating Procedure for Validation of Semivolatile Data*
    - *SOP NO. QA-HWSS-A-007, Rev. 0, Standard Operating Procedure for Validation of Pesticide Data*
    - *SOP NO. QA-HWSS-A-006, Rev. 0, Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data*
    - *SOP NO. QA-HWSS-A-010, Rev. 0, Standard Operating Procedure for the Validation of ICP-AES Data*
    - *SOP NO. QA-HWSS-A-011, Rev. 0, Standard Operating Procedure for Validation of Mercury Data*
    - *SOP NO. QA-HWSS-A-012, Rev. 0, Standard Operating Procedure for Validation of Cyanide Data*
- US DoD Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EEA1705007.6488	24K1715	Con-test, A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24K1715	WG	CLMW-02I	24K1715-01	2024/11/18 11:45		
24K1715	WG	CLMW-02S	24K1715-02	2024/11/19 10:30		
24K1715	WG	CLMW-03I	24K1715-03	2024/11/19 13:00		
24K1715	WG	DUP-CLMW-03-I-Q	24K1715-04	2024/11/19 13:00	FD	
24K1715	WQ	Trip Blank	24K1715-05	2024/11/19 00:00	TB	Trip Blank-11192024

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1715	WG	SW8260D	Volatile Organic Compounds by GC/MS	4	N/FD
24K1715	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	TB
24K1715	WG	SW8270E	Semivolatile Organic Compounds by GC/MS	4	N/FD

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1715	WG	SW8270D SIM	1,4-Dioxane by GC/MS SIM	4	N/FD
24K1715	WG	SW8081B	Organochlorine Pesticides by GC	4	N/FD
24K1715	WG	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	4	N/FD
24K1715	WG	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	4	N/FD
24K1715	WG	SW6010D	Metals by ICP-AES	4	N/FD
24K1715	WG	SW7470A	Mercury in Liquid Wastes	4	N/FD
24K1715	WG	SW9014	Cyanide	4	N/FD

Data Usability Summary Report	Project: Court & Luquer St GW
Date Completed: January 6, 2024	Prepared by: Christa Baker; Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Sample ID Trip Blank was updated to Trip Blank-11192024 to make the ID unique.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Field Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	No field blanks or MS/MSDs collected with this SDG. Overall QC frequency is correct. 1 field duplicate collected. 1 trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	Yes. Sample CLMW-02I was extracted past the recommended holding time for semivolatiles and pesticides analyses. All associated results were non-detect and were UJ qualified as estimated non-detect.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A)
- Surrogates Outside Limits (Table 3)
- Internal Standards Outside Limits (Table 3A)
- Isotope Dilution Analytes Outside Limits (Table 3B)
- Ion Ratios Outside Limits (Table 3C)
- MS/MSD Outside Limits (Table 4 and 4A)
- LCS/LCSD Outside Limits (Table 5 and 5A)
- ICV/CCV Outside Limits (Table 5B)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

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Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,3-Trichlorobenzene recovered above upper limits in LCSD B393275-BSD1. Associated results were non-detect; therefore, no qualifications were made. 2-Methyl-2-Butanol exhibited poor precision between LCS and LCSD B393275-BS1 and B393275-BSD1. The associated results were non-detect and did not require qualification.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. 1,2,3-Trichlorobenzene recovered outside limits in CCV S114778-CCV1. Associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants,	Not applicable.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
then "U" flag data. Qualification also applies to TICs.	
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Caprolactam and hexachloroethane recovered below lower limits in LCS B393095-BS1 and LCSD B393095-BSD1. 2,4-Dinitrophenol and hexachlorobutadiene also recovered below lower limits in LCSD B393095-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. Multiple analytes exhibited poor precision between LCS B393095-BS1 and LCSD B393095-BSD1. The associated results were non-detect and did not require qualification.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit (see Table 5B)?	No. Dibenz(a,h)anthracene, 2,4-dinitrophenol, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene recovered outside limits in initial calibration 2401244. Associated results were non-detect and did not require qualification.
Is %D in the initial calibration verification for target compounds less than method specifications (see Table 5B)?	No. Pyridine recovered outside limits in S114725-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. Aniline and hexachlorocyclopentadiene recovered outside limits in S114683-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All semivolatiles results were non-detect in parent sample CLMW-03I and field duplicate DUP-CLMW-03-I-Q; therefore, precision could not be evaluated.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Are pesticide breakdowns within limits?	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	No. Chlordane (2) recovered outside limits in ICV S114372-ICV1. Associated results were non-detect and were not qualified.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All pesticides results were non-detect in parent sample CLMW-03I and field duplicate DUP-CLMW-03-I-Q; therefore, precision could not be evaluated.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D? (See Table 5B)	Yes.
Is continuing calibration for target compounds <20%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Acceptable.
Do field duplicate results show good precision for all compounds (see Table 7)?	All PCB results were non-detect in parent sample CLMW-03I and field duplicate DUP-CLMW-03-I-Q; therefore, precision could not be evaluated.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are <RL, U flag data; if >RL but <5 times the blank contaminants, then "J+" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3B). If out, and recovery is high with no positive values, then no data qualification is required.	No. 13C2-4:2FTS recovered above upper limits in sample CLMW-02I. The associated result was non-detect; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
	A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? Failures should not result in qualification if the native analyte concentration is greater than 3X the spike concentration.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria (see Table 3B)? Do transition mass ratios fall within acceptance limits (see Table 3C)?	No. The qualifier ion ratio for perfluorooctanesulfonic acid (PFOS) was less than 50% of the associated calibration in sample CLMW-02I. The associated result was J qualified as estimated. The qualifier ion ratio for perfluorobutanesulfonic acid (PFBS) was less than 50% of the associated calibration in sample CLMW-02S. The associated result was J qualified as estimated.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)? Does the bile salts standard include all required bile salts and achieve required separation for samples where PFOS is detected?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are < 5 times the blank then "U" flag data.	Nickel was detected below the PQL in method blank B393730-BLK1. The associated results in CLMW-02I and CLMW-02S were below the PQL and were U qualified as non-detect with the MDL elevated to the original sample result. The associated results in CLMW-03I and DUP-CLMW-03-I-Q were greater than the PQL and were not qualified.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	A matrix spike was prepared from sample CLMW-02I. Calcium, magnesium, and sodium recovered outside limits; however, the sample concentrations were greater than four times the spike amount and did not require qualification.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. CLMW-02I, CLMW-02S, CLMW-03I, and DUP-CLMW-03-I-Q were reanalyzed for copper and arsenic. Results are reported from the reanalysis.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Is calibration low level verification (CCVL) within QC criteria of 70-130% recovery? If not was sample re-analyzed to establish criteria?	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 95-105%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check ICB and CCB +/- RL. Contact lab if unacceptable.	Nickel was detected below the PQL in continuing calibration blank S114829-CCB1. The associated results in CLMW-02I and CLMW-02S were below the PQL and were U qualified as non-detect with the MDL elevated to the original sample result. The associated results in CLMW-03I and DUP-CLMW-03-I-Q were greater than the PQL and were not qualified. Silver was detected below the PQL in CCB S114829-CCB2. Associated results were non-detect and did not require qualification. Manganese was detected below the PQL in CCBs S114829-CCB4 and S114829-CCB5. Associated results were greater than the PQL and did not require qualification.
Do field duplicate results show good precision for all compounds (see Table 6)?	Yes.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is there one serial dilution for each analytical batch?	A serial dilution was not reported for mercury. All sample results are non-detect.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check CRA/ICVL/CCVL 70-130%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Mercury results were non-detect in parent sample CLMW-03I and field duplicate DUP-CLMW-03-I-Q; therefore, precision could not be evaluated.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 80-120%. Contact lab if unacceptable.	Acceptable.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

N – Indicates presumptive evidence of a compound. This flag is used for a tentatively identified compound, where the identification is based on a mass spectral library search.

UJ – The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was non-detect and was rejected and considered unusable due to quality control anomalies.

Summary of Findings

VOCs
- 1,2,3-Trichlorobenzene was UJ qualified in all samples due to poor recovery in the associated CCV.

SVOCs
- Caprolactam, 2,4-dinitrophenol, hexachlorobutadiene, and hexachloroethane were UR qualified in samples CLMW-02I, CLMW-02S, CLMW-03I, and DUP-CLMW-03-I-Q due to low recovery in the associated LCS.
- Pyridine was UJ qualified in CLMW-02I, CLMW-02S, CLMW-03I, and DUP-CLMW-03-I-Q due to poor recovery in the associated ICV.
- Aniline and hexachlorocyclopentadiene were UJ qualified in CLMW-02I, CLMW-02S, CLMW-03I, and DUP-CLMW-03-I-Q due to poor recovery in the associated CCV.

Pesticides
- None.

PCBs
- None.

PFAS
- Perfluorobutanesulfonic acid (PFBS) was J qualified in CLMW-02S due to qualifier ion ratio below 50% of the associated calibration.
- Perfluorooctanesulfonic acid (PFOS) was J qualified in CLMW-02I due to qualifier ion ratio below 50% of the associated calibration.

Metals
- Nickel was U qualified in CLMW-02I and CLMW-02S due to contamination in the associated method blank.

Mercury
- None.

Cyanide
- None.

Table 2 – List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW6010D	B393730-BLK1	MB	Nickel	0.0048	JB	mg/L	0.0046	0.01
SW6010D	S114829-CCB1	CCB	Nickel	0.0057		mg/L		0.01
SW6010D	S114829-CCB2	CCB	Silver	0.0048		mg/L		0.01
SW6010D	S114829-CCB4	CCB	Manganese	0.0034		mg/L		0.01
SW6010D	S114829-CCB5	CCB	Manganese	0.0035		mg/L		0.01

Table 2A – List of Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qualifier	PQL	Affected Samples	Sample Flag
SW6010D	B393730-BLK1	MB	Nickel	0.0048	0.0066	JB	0.01	CLMW-02I	U Flag
SW6010D	B393730-BLK1	MB	Nickel	0.0048	0.0065	JB	0.01	CLMW-02S	U Flag
SW6010D	B393730-BLK1	MB	Nickel	0.0048	0.018	B	0.01	CLMW-03I	None
SW6010D	B393730-BLK1	MB	Nickel	0.0048	0.018	B	0.01	DUP-CLMW-03-I-Q	None
SW6010D	S114829-CCB4	CCB	Manganese	0.0034	0.18		0.01	CLMW-02I	None
SW6010D	S114829-CCB4	CCB	Manganese	0.0034	0.040		0.01	CLMW-02S	None
SW6010D	S114829-CCB4	CCB	Manganese	0.0034	0.27		0.01	CLMW-03I	None
SW6010D	S114829-CCB4	CCB	Manganese	0.0034	0.26		0.01	DUP-CLMW-03-I-Q	None

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 3A – Internal Standards Outside Control Limits
None.

Table 3B – List of Samples with Isotope Dilution Analytes outside Control Limits

Method	Sample ID	Sample Type	Isotope Dilution Analyte	Rec. %	Low Limit	High Limit	Associated Target Analyte(s)	Sample Qualifier
E1633	CLMW-02I	N	13C2-4:2FTS	242	40	200	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	None – High & ND

Table 3B – List of Ion Ratios outside Control Limits

Method	Sample ID	Sample Type	Analyte	Ratio	Lower Limit	Upper Limit	Sample Qualifier
E1633	CLMW-02S	N	Perfluorobutanesulfonic acid (PFBS)	2.0	19.9	59.7	J Flag

Method	Sample ID	Sample Type	Analyte	Ratio	Lower Limit	Upper Limit	Sample Qualifier
E1633	CLMW-02I	N	Perfluorooctanesulfonic acid (PFOS)	16.0	20.85	62.55	J Flag

Table 4 – List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Low Limit	High Limit	Sample Qualifier
SW6010D	CLMW-02I	MS	Calcium	110	4.000	172	75	125	None – 4X
			Magnesium	35.5	4.000	129	75	125	None – 4X
			Sodium	110	4.000	172	75	125	None – 4X

Table 4A – List of MS/MSD RPDs outside Control Limits

Not applicable.

Table 5 - List of LCS Recoveries outside Control Limits

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8260D	B393275	LCSD	1,2,3-Trichlorobenzene	121	142	70	130	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q Trip Blank-11192024	None – High & ND
SW8270E	B393095	LCS/LCSD	Caprolactam	28.6	24.2	40	140	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q	UR Flag
		LCS/LCSD	Hexachloroethane	39.0	38.2	40	140		UR Flag
		LCSD	2,4-Dinitrophenol	53.9	21.8	30	130		UR Flag
		LCSD	Hexachlorobutadiene	47.4	36.9	40	140		UR Flag

Table 5A – List of LCS/LCSD RPDs outside Control Limits

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
SW8260D	B393275	2-Methyl-2-Butanol	29.2	25	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q Trip Blank-11192024	None – ND
SW8270E	B393095	2,3,4,6-Tetrachlorophenol	44.8	20	CLMW-02I CLMW-02S CLMW-03I	None – ND
		2-Chlorophenol	30.4	20		None – ND
		2,4-Dichlorophenol	27.1	20		None – ND

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
		2,4-Dinitrophenol	84.9	50	DUP-CLMW-03-I-Q	None – ND
		Hexachlorobutadiene	24.9	20		None – ND
		2-Methylnaphthalene	24.1	20		None – ND
		Naphthalene	22.3	20		None – ND
		2-Nitrophenol	30.9	20		None – ND
		4-Nitrophenol	53.6	50		None – ND
		1,2,4,5-Tetrachlorobenzene	25.0	20		None – ND
		2,4,5-Trichlorophenol	31.4	20		None – ND

Table 5B – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
SW8260D	S114778-CCV1	CCV	1,2,3-Trichlorobenzene	38.0	20	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q Trip Blank-11192024	UJ Flag
SW8270E	2401244	ICAL	Dibenz(a,h)anthracene	21.3	20	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S114725-ICV1	ICV	Pyridine	-37.0	30	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q	UJ Flag
SW8270E	S114683-CCV1	CCV	Aniline	-24.5	20	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q	UJ Flag
			Hexachlorocyclopentadiene	22.3	20		UJ Flag
SW8081B	S114372-ICV1	ICV	Chlordane (2)	24.2	20	CLMW-02I CLMW-02S CLMW-03I DUP-CLMW-03-I-Q	None – ND

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-02I	24K1715-01	SW6010D	1X	Sample was reanalyzed for copper and arsenic. Results are reported from the reanalysis.
CLMW-02S	24K1715-02	SW6010D	1X	Sample was reanalyzed for copper and arsenic. Results are reported from the reanalysis.
CLMW-03I	24K1715-03	SW6010D	1X	Sample was reanalyzed for copper and arsenic. Results are reported from the reanalysis.
DUP-CLMW-03-I-Q	24K1715-04	SW6010D	1X	Sample was reanalyzed for copper and arsenic. Results are reported from the reanalysis.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	CLMW-03I	DUP-CLMW-03-I-Q	RPD	RPD Rating	Sample Qualifier
SW8260D	Tetrachloroethene (PCE)	µg/L	WG	1	45	44	2.2%	Good	None
SW8260D	Chloroform	µg/L	WG	2	2.2	2.1	4.7%	Good	None
SW8260D	Trichloroethene (TCE)	µg/L	WG	1	0.53	0.47	12.0%	Good	None
E1633	Perfluorooctanesulfonic acid (PFOS)	ng/l	WG	1.4	3.1	3.0	3.3%	Good	None
E1633	Perfluoropentanoic Acid (PFPeA)	ng/l	WG	2.8	20	22	9.5%	Good	None
E1633	Perfluoropentanesulfonic Acid (PFPeS)	ng/l	WG	1.4	0.60	0.54	10.5%	Good	None
E1633	Perfluorohexanoic acid (PFHxA)	ng/l	WG	1.4	17	19	11.1%	Good	None
E1633	Perfluorooctanoic acid (PFOA)	ng/l	WG	1.4	140	150	6.9%	Good	None
E1633	Perfluorohexanesulfonic acid (PFHxS)	ng/l	WG	1.4	6.5	7.3	11.6%	Good	None
E1633	Perfluorobutanoic Acid	ng/l	WG	5.6	19	21	10.0%	Good	None
E1633	Perfluorobutanesulfonic acid (PFBS)	ng/l	WG	1.4	57	65	13.1%	Good	None
E1633	Perfluoroheptanoic acid (PFHpA)	ng/l	WG	1.4	16	17	6.1%	Good	None
SW6010D	Iron	mg/l	WG	0.05	0.29	0.21	32.0%	Good	None
SW6010D	Magnesium	mg/l	WG	0.05	18	17	5.7%	Good	None
SW6010D	Manganese	mg/l	WG	0.01	0.27	0.26	3.8%	Good	None
SW6010D	Nickel	mg/l	WG	0.01	0.018	0.018	0.0%	Good	None
SW6010D	Potassium	mg/l	WG	2	4.0	3.9	2.5%	Good	None
SW6010D	Sodium	mg/l	WG	2	440	440	0.0%	Good	None
SW6010D	Barium	mg/l	WG	0.05	0.12	0.12	0.0%	Good	None
SW6010D	Zinc	mg/l	WG	0.01	0.011	ND	NC	None	None - <2X PQL

Method	Analyte	Unit	Matrix	PQL	CLMW-03I	DUP-CLMW-03-I-Q	RPD	RPD Rating	Sample Qualifier
SW6010D	Calcium	mg/l	WG	0.5	51	50	2.0%	Good	None
SW6010D	Aluminum	mg/l	WG	0.05	0.17	0.12	34.5%	Good	None
SW6010D	Copper	mg/l	WG	0.01	0.017	0.016	6.1%	Good	None
SW9014	Cyanide	mg/l	WG	0.01	0.0096	ND	NC	None	None - <2X PQL

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
mg/L	=	milligrams per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
ND	=	not detected
ng/L	=	nanograms per liter
NYSDEC	=	New York State Department of Environmental Conservation
PCB	=	polychlorinated biphenyl
PFAS	=	per- and polyfluoroalkyl substances
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SIM	=	selective ion monitoring
SDG	=	sample delivery group
SO	=	soil
SVOC	=	semi-volatile organic compounds
TIC	=	tentatively identified compounds

Acronym List and Table Key:

TB	=	trip blank
VOC	=	volatile organic compounds
WQ	=	water quality control matrix
%D	=	percent difference
%RSD	=	percent relative standard deviation

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*
    - *SOP NO. QA-HWSS-A-005, Rev. 0, Standard Operating Procedure for Validation of Semivolatile Data*
    - *SOP NO. QA-HWSS-A-007, Rev. 0, Standard Operating Procedure for Validation of Pesticide Data*
    - *SOP NO. QA-HWSS-A-006, Rev. 0, Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data*
    - *SOP NO. QA-HWSS-A-010, Rev. 0, Standard Operating Procedure for the Validation of ICP-AES Data*
    - *SOP NO. QA-HWSS-A-011, Rev. 0, Standard Operating Procedure for Validation of Mercury Data*
    - *SOP NO. QA-HWSS-A-012, Rev. 0, Standard Operating Procedure for Validation of Cyanide Data*
- US DoD Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EEA1705007.6488	24K1835	Con-test, A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
24K1835	WG	CLMW-06	24K1835-01	2024/11/20 11:15		
24K1835	WQ	Trip Blank	24K1835-02	2024/11/20 00:00	TB	Trip Blank-11202024

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1835	WG	SW8260D	Volatile Organic Compounds by GC/MS	1	N
24K1835	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	TB
24K1835	WG	SW8270E	Semivolatile Organic Compounds by GC/MS	1	N
24K1835	WG	SW8270D SIM	1,4-Dioxane by GC/MS SIM	1	N
24K1835	WG	SW8081B	Organochlorine Pesticides by GC	1	N
24K1835	WG	SW8082A	Polychlorinated Biphenyls (PCBs) by GC	1	N

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
24K1835	WG	E1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	1	N
24K1835	WG	SW6010D	Metals by ICP-AES	1	N
24K1835	WG	SW7470A	Mercury in Liquid Wastes	1	N
24K1835	WG	SW9014	Cyanide	1	N

Data Usability Summary Report	Project: Court & Luquer St GW
Date Completed: January 7, 2024	Prepared by: Christa Baker; Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Sample ID Trip Blank was updated to Trip Blank-11202024 to make the ID unique.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Field Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	No field blanks, field duplicates, or MS/MSDs collected with this SDG. Overall QC frequency is correct. 1 trip blank collected.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A)
- Surrogates Outside Limits (Table 3)
- Internal Standards Outside Limits (Table 3A)
- Isotope Dilution Analytes Outside Limits (Table 3B)
- Ion Ratios Outside Limits (Table 3C)
- MS/MSD Outside Limits (Table 4 and 4A)
- LCS/LCSD Outside Limits (Table 5 and 5A)
- ICV/CCV Outside Limits (Table 5B)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

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Volatile Organic Compounds by GC/MS – Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,3-Trichlorobenzene recovered above upper limits in LCSD B393275-BSD1. Associated results were non-detect; therefore, no qualifications were made. 2-Methyl-2-Butanol exhibited poor precision between LCS B393275-BS1 and LCSD B393275-BSD1. The associated results were non-detect and did not require qualification.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. 1,2,3-Trichlorobenzene recovered outside limits in S114778-CCV1. Associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Caprolactam and hexachloroethane recovered below lower limits in LCS B393095-BS1 and LCSD B393095-BSD1. 2,4-Dinitrophenol and hexachlorobutadiene also recovered below lower limits in LCSD B393095-BSD1. The associated results were non-detect and were UR qualified as unusable non-detect. 2,3,4,6-Tetrachlorophenol, 2-chlorophenol, 2,4-dichlorophenol, 2,4-dinitrophenol, hexachlorobutadiene, 2-methylnaphthalene, naphthalene, 2-nitrophenol, 4-nitrophenol, 1,2,4,5-tetrachlorobenzene, and 2,4,5-trichlorophenol exhibited poor precision between LCS B393095-BS1 and LCSD B393095-BSD1. The associated results were non-detect and did not require qualification.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit (see Table 5B)?	No. Dibenz(a,h)anthracene, 2,4-dinitrophenol, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene recovered outside limits in initial calibration 2401244. Associated results were non-detect and did not require qualification.
Is %D in the initial calibration verification for target compounds less than method specifications (see Table 5B)?	No. Pyridine recovered outside limits in ICV S114725-ICV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Is %D in the continuing calibration for target compounds less than method specifications (see Table 5B)?	No. Aniline and hexachlorocyclopentadiene recovered outside limits in CCV S114683-CCV1. The associated results were non-detect and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.

Semivolatile Organic Compounds by GC/MS – Method 8270E and 8270DSIM	
Description	**Notes and Qualifiers**
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

Pesticides – Method 8081B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Are pesticide breakdowns within limits?	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Are dual column results within 40% of each other?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? (See Table 5B)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 75-125%? (See Table 5B)	No. Chlordane (2) recovered outside limits in S114372-ICV1. Associated results were non-detect and were not qualified.
Is continuing calibration for target compounds < 25%D. (See Table 5B)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	A field duplicate was not provided with this SDG.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
Are any compounds present in method blanks as noted on Table 2?	No.

PCB Aroclors by GC/ECD – Method 8082A	
Description	**Notes and Qualifiers**
For samples, if results are <5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Are MS/MSD within QC criteria (see Table 4 and 4A)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5 and 5A)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit? Is initial calibration verification <20%D? (See Table 5B)	Yes.
Is continuing calibration for target compounds <20%D? (See Table 5B)	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Acceptable.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are <RL, U flag data; if >RL but <5 times the blank contaminants, then "J+" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3B). If out, and recovery is high with no positive values, then no data qualification is required.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.

Perfluorinated Compounds by LC/MS/MS – Method E1633	
Description	**Notes and Qualifiers**
Is MS/MSD within QC criteria (see Table 4)? Failures should not result in qualification if the native analyte concentration is greater than 3X the spike concentration.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria (see Table 3B)? Do transition mass ratios fall within acceptance limits (see Table 3C)?	No. The qualifier ion ratio for perfluorooctanesulfonic acid (PFOS) was less than 50% of the associated calibration in sample CLMW-06. The associated result was J qualified as estimated.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)?	Yes.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA (see Table 5B)? Does the bile salts standard include all required bile salts and achieve required separation for samples where PFOS is detected?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are < 5 times the blank then "U" flag data.	Sodium was detected below the PQL in method blank B394850-BLK1. The associated results were greater than the PQL and did not require qualification.
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount.	An MS/MSD was not provided with this SDG.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	Not applicable.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.

Metals by ICP/AES – Method 6010D	
Description	**Notes and Qualifiers**
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. CLMW-06 was reanalyzed for iron, potassium, arsenic, thallium, and sodium. Results are reported from the reanalysis.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Is calibration low level verification (CCVL) within QC criteria of 70-130% recovery? If not was sample re-analyzed to establish criteria?	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 95-105%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check ICB and CCB +/- RL. Contact lab if unacceptable.	Sodium was detected below the PQL in continuing calibration blank S115695-CCB2. The associated results were greater than the PQL and did not require qualification. Silver was detected below the PQL in CCB S114829-CCB2. Associated results were non-detect and did not require qualification.
Do field duplicate results show good precision for all compounds (see Table 6)?	A field duplicate was not provided with this SDG.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is there one serial dilution for each analytical batch?	A serial dilution was not reported for mercury. All sample results are non-detect.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.

Mercury – Method 7470A	
Description	**Notes and Qualifiers**
Spot check CRA/ICVL/CCVL 70-130%. Contact lab if unacceptable.	Acceptable.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Cyanide – Method 9014	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank, LCS and MS/MSD with each batch?	Yes. A site-specific MS/MSD was not analyzed with this SDG. An LCS was analyzed in each batch and was used to assess accuracy.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	An MS/MSD was not provided with this SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <10 %RSD or curve fit? Is initial calibration verification for target compound <20 %D?	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Acceptable.
Spot check CCV 80-120%. Contact lab if unacceptable.	Acceptable.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	A field duplicate was not provided with this SDG.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ – The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was non-detect and was rejected and considered unusable due to quality control anomalies.

Summary of Findings

VOCs
- 1,2,3-Trichlorobenzene was UJ qualified in CLMW-06 and Trip Blank-11202024 due to poor recovery in the associated CCV.

SVOCs
- Caprolactam, 2,4-dinitrophenol, hexachlorobutadiene, and hexachloroethane were UR qualified in sample CLMW-06 due to low recovery in the associated LCS.
- Pyridine was UJ qualified in CLMW-06 due to poor recovery in the associated ICV.
- Aniline and hexachlorocyclopentadiene were UJ qualified in CLMW-06 due to poor recovery in the associated CCV.

Pesticides
- None.

PCBs
- None.

PFAS
- Perfluorooctanesulfonic acid (PFOS) was J qualified in CLMW-06 due to qualifier ion ration below 50% of the associated calibration.

Metals
- None.

Mercury
- None.

Cyanide
- None.

Table 2 – List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
SW6010D	B394850-BLK1	MB	Sodium	0.57	J	mg/L	0.38	2.0
SW6010D	S115695-CCB2	CCB	Sodium	0.40		mg/L		2.0

Table 2A – List of Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qualifier	PQL	Affected Samples	Sample Flag
SW6010D	B394850-BLK1	MB	Sodium	0.57	220		2.0	CLMW-06	None

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 3A – Internal Standards Outside Control Limits
None.

Table 3B – List of Samples with Isotope Dilution Analytes outside Control Limits
None.

Table 3B – List of Ion Ratios outside Control Limits

Method	Sample ID	Sample Type	Analyte	Ratio	Lower Limit	Upper Limit	Sample Qualifier
E1633	CLMW-06	N	Perfluorooctanesulfonic acid (PFOS)	14.3	20.85	62.55	J Flag

Table 4 – List of MS/MSD Recoveries outside Control Limits
None.

Table 4A – List of MS/MSD RPDs outside Control Limits
Not applicable.

Table 5 - List of LCS Recoveries outside Control Limits

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
SW8260D	B393275	LCSD	1,2,3-Trichlorobenzene	121	142	70	130	CLMW-06 Trip Blank-11202024	None – High & ND
SW8270E	B393095	LCS/LCSD	Caprolactam	28.6	24.2	40	140	CLMW-06	UR Flag

Method	Batch ID	Sample Type	Analyte	LCS Rec. (%)	LCSD Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
		LCS/LCSD	Hexachloroethane	39.0	38.2	40	140		UR Flag
		LCSD	2,4-Dinitrophenol	53.9	21.8	30	130		UR Flag
		LCSD	Hexachlorobutadiene	47.4	36.9	40	140		UR Flag

Table 5A – List of LCS/LCSD RPDs outside Control Limits

Method	Batch ID	Analyte	RPD	RPD Limit	Associated Samples	Sample Qualifier
SW8260D	B393275	2-Methyl-2-Butanol	29.2	25	CLMW-06 Trip Blank-11202024	None – ND
SW8270E	B393095	2,3,4,6-Tetrachlorophenol	44.8	20	CLMW-06	None – ND
		2-Chlorophenol	30.4	20		None – ND
		2,4-Dichlorophenol	27.1	20		None – ND
		2,4-Dinitrophenol	84.9	50		None – ND
		Hexachlorobutadiene	24.9	20		None – ND
		2-Methylnaphthalene	24.1	20		None – ND
		Naphthalene	22.3	20		None – ND
		2-Nitrophenol	30.9	20		None – ND
		4-Nitrophenol	53.6	50		None – ND
		1,2,4,5-Tetrachlorobenzene	25.0	20		None – ND
		2,4,5-Trichlorophenol	31.4	20		None – ND

Table 5B – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
SW8260D	S114778-CCV1	CCV	1,2,3-Trichlorobenzene	38.0	20	CLMW-06 Trip Blank-11202024	UJ Flag
SW8270E	2401244	ICAL	Dibenz(a,h)anthracene	21.3	20	CLMW-06	None – ND
			2,4-Dinitrophenol	37.1	20		None – ND
			Di-n-octylphthalate	21.9	20		None – ND
			Indeno(1,2,3-cd)pyrene	20.4	20		None – ND
SW8270E	S114725-ICV1	ICV	Pyridine	-37.0	30	CLMW-06	UJ Flag
SW8270E	S114683-CCV1	CCV	Aniline	-24.5	20	CLMW-06	UJ Flag
			Hexachlorocyclopentadiene	22.3	20		UJ Flag
SW8081B	S114372-ICV1	ICV	Chlordane (2)	24.2	20	CLMW-06	None – ND

Table 6 –Samples that were Re-analyzed/Diluted

Sample ID	Lab ID	Method	Dilution Factor	Action
CLMW-06	24K1835-01	SW6010D	1X	CLMW-06 was reanalyzed for iron, potassium, arsenic, thallium, and sodium. Results are reported from the reanalysis.

Table 7 – Summary of Field Duplicate Results

Not applicable.

Acronym List and Table Key:

CCB	=	continuing calibration blank
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration standard
ICV	=	initial calibration verification
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MB	=	method blank
MDL	=	method detection limit
mg/L	=	milligrams per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PCB	=	polychlorinated biphenyl
PFAS	=	per- and polyfluoroalkyl substances
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SIM	=	selective ion monitoring
SDG	=	sample delivery group
SO	=	soil
SVOC	=	semi-volatile organic compounds
TIC	=	tentatively identified compounds
TB	=	trip blank
VOC	=	volatile organic compounds
WQ	=	water quality control matrix

Acronym List and Table Key:

%D = percent difference

%RSD = percent relative standard deviation

F

Survey Map



NOTES:

VERTICAL DATUM – NAVD 1988

HORIZONTAL DATUM – NAD83 NEW YORK STATE PLANE, LONG ISLAND, US FOOT

STATE OF NEW YORK
PAUL JAMES OLSZEWSKI
LICENSED LAND SURVEYOR
050212

THE UNDERSIGNED SURVEYOR HEREBY CERTIFIES THAT THIS IS AN ACCURATE MAP OF AN ACTUAL SURVEY COMPLETED 12–03–2024.

PAUL J. OLSZEWSKI, P.L.S. LICENSE No. 50212

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB–DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."

"COPIES FROM THE ORIGINAL OF THIS SURVEY MAP NOT MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY."

BROOKLYN SHRED UP
WELL LOCATION

BOROUGH OF BROOKLYN

NEW YORK CITY STATE OF NEW YORK

PAUL JAMES OLSZEWSKI, P.L.S., PLLC
1326 NEW SENECA TPKE, SUITE B1
SKANEATELES NEW YORK, 13152
315–488–5552 pjosurvey.com

DATE: NOVEMBER 19, 2024 SCALE: 1" = 40 FEET PROJECT No. NYC BRK SHRED UP

G Waste Disposal Manifests

576119-24 5790859 1/4

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
NYR000270306	1	(267)406-0083	023457117 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	4	DM	850	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc#

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: x Chuck Porreca on behalf of NYSDEC
Signature: x
Month: 10 Day: 29 Year: 24

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: Douglas Allen
Signature:
Month: 10 Day: 29 Year: 24

Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month: 11 Day: 1 Year: 24

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.	2.	3.	4.
H141			

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: MALVERN
Signature:
Month: 11 Day: 04 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/7 5792951

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000270306
2. Page 1 of: 1
3. Emergency Response Phone: (267)406-0083
4. Manifest Tracking Number: 023457119 JJK

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name: Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name: Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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		
						D039	D040	F002
X	1. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	16	DM	900	P	B		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 579823-24

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: C. Porreca on behalf of NYSDEC
Signature:
Month: 10 Day: 31 Year: 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ISAIAH WILSON
Signature:
Month: 10 Day: 31 Year: 24
Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month: 11 Day: 5 Year: 24

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
18b. Alternate Facility (or Generator)
Manifest Reference Number:
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. 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: MALVERN
Signature:
Month: 11 Day: 07 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/7 579 2951

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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
	NYR000270306	1	(267)406-0083	023457120 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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		
						D039	D040	F002
X	1. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	12	DM	950	P	B		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 579660-24

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: G. Porreca on behalf of the NYSDEC
Signature:
Month: 11 Day: 1 Year: 24

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: ISAIAH WILSON
Signature:
Month: 11 Day: 01 Year: 24

Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month: 11 Day: 5 Year: 24

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.	2.	3.	4.
H141			

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: MATTHEW [illegible]
Signature:
Month: 11 Day: 07 Year: 24

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

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11/11 5796630

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000270306	1	(267)406-0083	023457118 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	7	DM	950	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc#585403-24

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: C. Porreca on behalf of NYSDEC
Signature:
Month 11 Day 5 Year 24

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: ISAIAH WILSON
Signature:
Month 11 Day 05 Year 24

Transporter 2 Printed/Typed Name: JESSICA PHUNG
Signature:
Month 11 Day 8 Year 24

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.	2.	3.	4.
H141			

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: MALVERN
Signature:
Month 11 Day 11 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/11 5796623

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
	NYR000270306	1	(267)406-0083	023457121 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene, Trichloroethylene) (D039,D040,F002) ERG#171	10	DM	950	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1) 2400042192-Hazardous Soil
Doc# 585393-24

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: C. Porreca on behalf of NYSDEC
Signature:
Month 11 Day 5 Year 24

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: Isaiah Wilson
Signature:
Month 11 Day 05 Year 24

Transporter 2 Printed/Typed Name: JESSICA PHUNG
Signature:
Month 11 Day 8 Year 24

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.	2.	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: MALVEV PHUNG
Signature:
Month 11 Day 11 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Trailer #37264 11/11 5796626

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000270306
2. Page 1 of: 1
3. Emergency Response Phone: (267)406-0083
4. Manifest Tracking Number: 023457252 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name: Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name: Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	8	DM	950	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 585347-24

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: C. Porreca on behalf of NYSDEC
Signature:
Month: 11 Day: 06 Year: 24

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: ISAIAH WILSON
Signature:
Month: 11 Day: 06 Year: 24

Transporter 2 Printed/Typed Name: JESSICA KING
Signature:
Month: 11 Day: 8 Year: 24

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. 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: MARK VERMEULEN
Signature:
Month: 11 Day: 11 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/18 5798315

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
	NYR000270306	1	(267)406-0083	023457253 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	6	DM	765	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc#588120-24

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: C. Porreca on behalf of NYSDEC | Signature | Month 11 | Day 7 | Year 24

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: ISAIAH WILSON | Signature | Month 11 | Day 07 | Year 24

Transporter 2 Printed/Typed Name: TESSA CHUNG | Signature | Month 11 | Day 18 | Year 24

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.	2.	3.	4.
H141			

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: MALVERN | Signature | Month 11 | Day 18 | Year 24

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

11/18 5798312

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
	NYR000270306	1	(267)406-0083	023457254 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	7	DM	950	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 88118-24

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: C. Porreca on behalf of NYSDEC
Signature:
Month: 11 Day: 08 Year: 24

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: ISAIAH WILSON
Signature:
Month: 11 Day: 08 Year: 24

Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month: 11 Day: 12 Year: 24

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.	2.	3.	4.
H191			

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: MALVEY AMRU
Signature:
Month: 11 Day: 19 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/18 5798303

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
	NYR000270306	1	(267)406-0083	023457255 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	4	DM	500	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 588100 - 24

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: X RONY JOHN | Signature | Month 11 | Day 11 | Year 24

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: ISAIAH WILSON | Signature | Month 11 | Day 11 | Year 24

Transporter 2 Printed/Typed Name: JESICA MUNG | Signature | Month 11 | Day 12 | Year 24

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.	2.	3.	4.
H141			

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: MALVERN | Signature | Month 11 | Day 18 | Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/21 5802582

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
	NYR000270306	1	(267)406-0083	023457256 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	4	DM	400	P	D039 B	D040	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
Doc# 594592-24

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: x RONY JOHN Behalf of NYS DEC
Signature:
Month: 11 Day: 12 Year: 24

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: KAIAH WILSON
Signature:
Month: 11 Day: 12 Year: 24

Transporter 2 Printed/Typed Name: JESSICA MANG
Signature:
Month: 11 Day: 19 Year: 24

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.	2.	3.	4.
H141			

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: MICHAEL VERMEULEN
Signature:
Month: 11 Day: 22 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/21 5802582

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000270306
2. Page 1 of: 1
3. Emergency Response Phone: (267)406-0083
4. Manifest Tracking Number: 023457266 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name: Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name: Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	200	P	D039 B	D040	F002
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171 NOT SHIPPED		DM		P	D039 B	D040	F002
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1) 2400042192-Hazardous Soil
~~9b.2) 2400042193-Hazardous Water~~
Doc# 594543-24

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: Gregory Mayer on behalf of NYSDEC
Signature: Gregory Mayer
Month 11 Day 13 Year 24

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: Douglas Allen
Signature: Douglas Allen
Month 11 Day 13 Year 24
Transporter 2 Printed/Typed Name: JESSICA MUNG
Signature: Jessica Mung
Month 11 Day 19 Year 24

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. 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: MATTHEW DUNN
Signature:
Month 11 Day 21 Year 24

00-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/21 5802582

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
	NYR000270306	1	(267)406-0083	023457267 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171 NOT SHIPPED		DM		P	D039 B	D040	F002
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	50	P	D039 B	D040	F002
	3.							
	4.							

14. Special Handling Instructions and Additional Information
~~9b.1)2400042192-Hazardous Soil~~
9b.2)2400042193-Hazardous Water
Doc# 594675-24

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: X Gregory Mayer on behalf of NYSDEC
Signature: Greg Mayer
Month 11 Day 14 Year 24

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: ISAIAH WILSON
Signature:
Month 11 Day 14 Year 24
Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature: Jessica Chung
Month 11 Day 19 Year 24

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. 2. H141 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: MALVERN
Signature:
Month 11 Day 21 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

11/21 5802582

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
	NYR000270306	1	(267)406-0083	023457268 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	0	DM	0	P	D039 B	D040	F002
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	200	P	D039 B	D040	F002
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
9b.2)2400042193-Hazardous Water
Doc# 54616-24

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: X Gregory Mayer on behalf of NYSDEC | Signature: X | Month 11 | Day 15 | Year 24

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: Douglas Allen | Signature | Month 11 | Day 15 | Year 24

Transporter 2 Printed/Typed Name: JESSICA THUNG | Signature | Month 11 | Day 19 | Year 24

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.	2.	3.	4.
	H141		

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: MALVERN | Signature | Month 11 | Day 21 | Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Trucks #372647 11/1 / 5802582

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000270306
2. Page 1 of: 1
3. Emergency Response Phone: (267)406-0083
4. Manifest Tracking Number: 023457269 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name: Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name: Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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		
	1. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene, Trichloroethylene) (D039,D040,F002) ERG#171		DM		P	~~D039~~ B	~~D040~~	~~F002~~
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, PGIII, (Tetrachloroethylene, Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	150	P	D039 B	D040	F002
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)2400042192-Hazardous Soil
9b.2)2400042193-Hazardous Water
Doc# 594677-24

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: Gregory Mayer on behalf of NYSDEC
Signature:
Month: 11 Day: 18 Year: 24

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: Isaiah Wilson
Signature:
Month: 11 Day: 18 Year: 24

Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month: 11 Day: 19 Year: 24

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.	2.	3.	4.
	H141		

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: Jess Bockel
Signature:
Month: 11 Day: 27 Year: 24

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

11/26 0805639

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
	NYR000270306	1	(267)406-0083	023457270 JJK

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC-Court and Luquer Street
625 Broadway
Albany NY 12233
Generator's Phone: 518 598-7799

Generator's Site Address (if different than mailing address)
NYSDEC-Court and Luquer Street
Court Street and Luquer Street
Brooklyn NY 11231

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

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. NA3077, Hazardous waste, solid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	100	P	D039 B	D040	F002
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, PGIII, (Tetrachloroethylene,Trichloroethylene) (D039,D040,F002) ERG#171	1	DM	300	P	D039 B	D040	F002
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1) 2400042192-Hazardous Soil
9b.2) 2400042193-Hazardous Water
Doc# 599773-24

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: Gregory Mayer on behalf of NYSDEC
Signature: Gregory Mayer
Month 11 Day 20 Year 24

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: Douglas Allen
Signature:
Month 11 Day 20 Year 24

Transporter 2 Printed/Typed Name: JESSICA CHUNG
Signature:
Month 11 Day 22 Year 24

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.	2.	3.	4.
H141	H141		

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: MATT VERDUCCI
Signature:
Month 12 Day 01 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

H Laboratory Analytical Results

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 17, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K1406

Enclosed are results of analyses for samples as received by the laboratory on November 16, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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B392861 50

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/17/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1406

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-05I	24K1406-01	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-05S	24K1406-02	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Trip Blank	24K1406-03	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
B393749-MS1, B393749-MSD1

Perfluorooctanoic acid (PFOA)
B393749-MS1, B393749-MSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
S115363-CCB2, S115363-CCB3, S115363-CCB4, S115363-CCB5, S115363-IBL1

13C2-6:2FTS
S115363-CCB2

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
S115363-CCB2, S115363-CCB3, S115363-CCB4, S115363-CCB5, S115363-IBL1

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
S115363-CCB2

D3-NMeFOSAA
S115363-CCB3, S115363-CCB5

D5-NEtFOSAA
S115363-CCB2, S115363-CCB3, S115363-CCB4, S115363-CCB5

N-EtFOSAA (NEtFOSAA)
S115363-CCB2, S115363-CCB3, S115363-CCB4, S115363-CCB5

N-MeFOSAA (NMeFOSAA)
S115363-CCB3, S115363-CCB5

Z-01

Sample frozen to extend holding time to 90 days.

Analyte & Samples(s) Qualified:

24K1406-02RE1[CLMW-05S]

SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Lead
24K1406-02[CLMW-05S], B394526-BLK3

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Lead
24K1406-01[CLMW-05I]

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium
24K1406-01[CLMW-05I], B394526-MS1, B394526-MSD1

Sodium
24K1406-01[CLMW-05I], B394526-MS1, B394526-MSD1

SW-846 8260D

Qualifications:

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B392861-BSD1

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Tetrachloroethylene
24K1406-01[CLMW-05I], B392861-MS1, B392861-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B392861-MS1, B392861-MSD1

1,2,4-Trichlorobenzene
B392861-MS1, B392861-MSD1

Bromoform
B392861-MS1, B392861-MSD1

Carbon Tetrachloride
B392861-MS1, B392861-MSD1

Chlorodibromomethane
B392861-MS1, B392861-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

1,1,1-Trichloroethane
B392861-MSD1

Bromodichloromethane
B392861-MSD1

Chlorobenzene
B392861-MSD1

Isopropylbenzene (Cumene)
B392861-MSD1

m+p Xylene
B392861-MSD1

Naphthalene
B392861-MSD1

n-Propylbenzene
B392861-MSD1

Trichlorofluoromethane (Freon 11)
B392861-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)
24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], 24K1406-03[Trip Blank], B392861-BLK1, B392861-BS1, B392861-BSD1, B392861-MS1, B392861-MSD1, S114483-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B392861-BS1, B392861-BSD1, B392861-MS1, B392861-MSD1, S114483-CCV1

SW-846 8270E

Qualifications:

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Hexachloroethane

B392794-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B392794-BSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

3-Nitroaniline

24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

4-Nitroaniline

24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

Caprolactam

24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Pyridine

B392794-MSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2,4,5-Tetrachlorobenzene
B392794-BS1, B392794-BSD1

1-Methylnaphthalene
B392794-BS1, B392794-BSD1

2,3,4,6-Tetrachlorophenol
B392794-BS1, B392794-BSD1

2,4,5-Trichlorophenol
B392794-BS1, B392794-BSD1

2,4,6-Trichlorophenol
B392794-BS1, B392794-BSD1

2,4-Dichlorophenol
B392794-BS1, B392794-BSD1

2,4-Dinitrophenol
B392794-BS1

2-Chloronaphthalene
B392794-BS1, B392794-BSD1

2-Chlorophenol
B392794-BS1, B392794-BSD1

2-Nitrophenol
B392794-BS1, B392794-BSD1

4,6-Dinitro-2-methylphenol
B392794-BS1, B392794-BSD1

4-Nitrophenol
B392794-BS1, B392794-BSD1

Acenaphthene
B392794-BS1, B392794-BSD1

Biphenyl
B392794-BS1, B392794-BSD1

Hexachlorobutadiene
B392794-BS1, B392794-BSD1

Pentachlorophenol
B392794-BS1, B392794-BSD1

Phenol
B392794-BS1, B392794-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Benzo(a)pyrene
24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

Di-n-octylphthalate
24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

Indeno(1,2,3-cd)pyrene
24K1406-01[CLMW-05I], B392794-MS1, B392794-MSD1

Pyridine
24K1406-01[CLMW-05I], B392794-MS1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV1, S114460-CCV1

Dibenz(a,h)anthracene
24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV1, S114460-CCV1

Di-n-octylphthalate
24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV1, S114460-CCV1

Indeno(1,2,3-cd)pyrene
24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV1, S114460-CCV1

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline

24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV1, S114460-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

24K1406-02[CLMW-05S], S114460-CCV2

Caprolactam

24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S114358-CCV2, S114460-CCV2

V-34

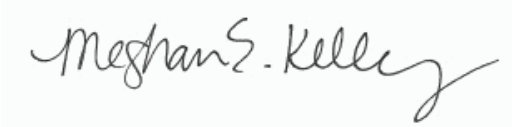
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24K1406-01[CLMW-05I], 24K1406-02[CLMW-05S], B392794-BLK1, B392794-BS1, B392794-BSD1, B392794-MS1, B392794-MSD1, S 114358-CCV1, S114460-CCV1, S114725-ICV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Bromodichloromethane	0.24	0.50	0.19	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Chloroform	3.4	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Tetrachloroethylene	16	1.0	0.17	µg/L	1	MS-12	SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Trichloroethylene	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.8	70-130		11/24/24 16:32
Toluene-d8	102	70-130		11/24/24 16:32
4-Bromofluorobenzene	106	70-130		11/24/24 16:32

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfur dioxide	3.9	µg/L	93810	0.912	1	007446-09-5	83	SW-846 8260D	11/21/24	11/24/24 16:32	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.4	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzaldehyde	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Biphenyl	ND	19	0.88	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Caprolactam	ND	9.6	0.69	µg/L	1	V-06, L-04, MS-09	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Acenaphthene	ND	4.8	0.75	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Acenaphthylene	ND	4.8	0.61	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Acetophenone	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Aniline	ND	19	8.6	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzo(a)pyrene	ND	4.8	0.42	µg/L	1	R-06	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Bis(2-chloroethoxy)methane	ND	9.6	0.55	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Bis(2-chloroethyl)ether	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.6	0.72	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.6	0.31	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Bromophenylphenylether	ND	9.6	0.68	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Butylbenzylphthalate	ND	9.6	0.38	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Carbazole	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Chloroaniline	ND	9.6	5.0	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Chloro-3-methylphenol	ND	9.6	0.61	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Chloronaphthalene	ND	9.6	0.78	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Chlorophenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Chlorophenylphenylether	ND	9.6	0.83	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Dibenz(a,h)anthracene	ND	4.8	0.46	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Dibenzofuran	ND	4.8	0.82	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Di-n-butylphthalate	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
3,3-Dichlorobenzidine	ND	9.6	0.44	µg/L	1	MS-09	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4-Dichlorophenol	ND	9.6	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Diethylphthalate	ND	9.6	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4-Dimethylphenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Dimethylphthalate	ND	9.6	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4-Dinitrophenol	ND	9.6	1.3	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4-Dinitrotoluene	ND	9.6	0.33	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,6-Dinitrotoluene	ND	9.6	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Di-n-octylphthalate	ND	9.6	0.31	µg/L	1	V-04, R-06	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Fluorene	ND	4.8	0.73	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Hexachlorobenzene	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Hexachlorocyclopentadiene	ND	9.6	2.7	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Hexachloroethane	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.46	µg/L	1	V-04, R-06	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Isophorone	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
1-Methylnaphthalene	ND	4.8	0.94	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Methylnaphthalene	ND	4.8	0.89	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Methylphenol	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
3/4-Methylphenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Naphthalene	ND	4.8	0.87	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Nitroaniline	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
3-Nitroaniline	ND	9.6	0.50	µg/L	1	MS-09	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Nitroaniline	ND	9.6	0.42	µg/L	1	MS-09	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Nitrobenzene	ND	9.6	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2-Nitrophenol	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
4-Nitrophenol	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
N-Nitrosodi-n-propylamine	ND	9.6	0.63	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Pentachlorophenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Phenanthrene	ND	4.8	0.69	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Phenol	ND	9.6	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
Pyridine	ND	19	4.9	µg/L	1	R-06, V-34	SW-846 8270E	11/21/24	11/22/24 10:18	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.6	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4,5-Trichlorophenol	ND	9.6	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL
2,4,6-Trichlorophenol	ND	9.6	0.36	µg/L	1		SW-846 8270E	11/21/24	11/22/24 10:18	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.7	15-110		11/22/24 10:18
Phenol-d6	32.5	15-110		11/22/24 10:18
Nitrobenzene-d5	83.6	30-130		11/22/24 10:18
2-Fluorobiphenyl	78.6	30-130		11/22/24 10:18
2,4,6-Tribromophenol	87.5	15-110		11/22/24 10:18
p-Terphenyl-d14	93.5	30-130		11/22/24 10:18

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.12	0.20	0.032	µg/L	1	J	SW-846 8270E	11/21/24	12/5/24 5:02	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	26.8	15-110		12/5/24 5:02	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.2	0.77	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorohexanoic acid (PFHxA)	0.75	1.5	0.27	ng/L	1	J	Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoroheptanoic acid (PFHpA)	0.46	1.5	0.27	ng/L	1	J	Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorooctanoic acid (PFOA)	1.6	1.5	0.40	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.63	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorobutanesulfonic acid (PFBS)	0.53	1.5	0.33	ng/L	1	J	Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.81	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorooctanesulfonic acid (PFOS)	0.96	1.5	0.38	ng/L	1	J	Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.90	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.7	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.6	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.41	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/5/24	12/12/24 17:32	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	88.7	5-130		12/12/24 17:32
13C5-PFPeA	87.7	40-130		12/12/24 17:32
13C5-PFHxA	92.2	40-130		12/12/24 17:32
13C4-PFHpA	92.4	40-130		12/12/24 17:32
13C8-PFOA	102	40-130		12/12/24 17:32
13C9-PFNA	89.9	40-130		12/12/24 17:32
13C6-PFDA	90.0	40-130		12/12/24 17:32
13C7-PFUnA	81.7	30-130		12/12/24 17:32
13C2-PFDoA	64.5	10-130		12/12/24 17:32
13C2-PFTeDA	49.1	10-130		12/12/24 17:32
13C3-PFBS	94.1	40-135		12/12/24 17:32
13C3-PFHxS	87.0	40-130		12/12/24 17:32
13C8-PFOS	87.1	40-130		12/12/24 17:32
13C2-4:2FTS	172	40-200		12/12/24 17:32
13C2-6:2FTS	122	40-200		12/12/24 17:32
13C2-8:2FTS	85.4	40-300		12/12/24 17:32
13C8-PFOSA	80.0	40-130		12/12/24 17:32
D3-NMeFOSA	53.7	10-130		12/12/24 17:32
D5-NEtFOSA	44.8	10-130		12/12/24 17:32
D3-NMeFOSAA	99.3	40-170		12/12/24 17:32
D5-NEtFOSAA	122	25-135		12/12/24 17:32
D7-NMeFOSE	49.0	10-130		12/12/24 17:32
D9-NEtFOSE	45.8	10-130		12/12/24 17:32
13C3-HFPO-DA	99.5	40-130		12/12/24 17:32

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 10:18	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
gamma-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Aldrin [1]	ND	0.045	0.0032	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
alpha-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
beta-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
delta-BHC [1]	ND	0.045	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0038	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
4,4'-DDD [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
4,4'-DDE [1]	ND	0.036	0.0027	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
4,4'-DDT [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Dieldrin [1]	ND	0.0018	0.0013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endosulfan I [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endosulfan II [1]	ND	0.072	0.013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endosulfan sulfate [1]	ND	0.072	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endrin [1]	ND	0.072	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endrin aldehyde [1]	ND	0.072	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Endrin ketone [1]	ND	0.072	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Heptachlor [1]	ND	0.045	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Heptachlor epoxide [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Methoxychlor [1]	ND	0.45	0.062	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG
Toxaphene [1]	ND	0.90	0.36	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.4	30-150		11/22/24 21:19
Decachlorobiphenyl [2]	97.3	30-150		11/22/24 21:19
Tetrachloro-m-xylene [1]	74.4	30-150		11/22/24 21:19
Tetrachloro-m-xylene [2]	77.6	30-150		11/22/24 21:19

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1221 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1232 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1242 [1]	ND	0.18	0.097	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1248 [1]	ND	0.18	0.085	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1254 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1262 [1]	ND	0.18	0.074	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM
Aroclor-1268 [1]	ND	0.18	0.068	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:37	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.4	30-150		11/22/24 13:37
Decachlorobiphenyl [2]	86.3	30-150		11/22/24 13:37
Tetrachloro-m-xylene [1]	69.9	30-150		11/22/24 13:37
Tetrachloro-m-xylene [2]	70.7	30-150		11/22/24 13:37

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Sample ID: 24K1406-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Barium	0.16	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Calcium	86	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:47	MJH
Iron	ND	0.050	0.036	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Lead	ND	0.010	0.0044	mg/L	1	B-05	SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Magnesium	29	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Manganese	0.34	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/11/24	12/12/24 13:57	AAJ
Nickel	0.0055	0.010	0.0046	mg/L	1	J	SW-846 6010D	12/13/24	12/17/24 12:26	MJH
Potassium	8.1	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:47	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Sodium	140	2.0	0.38	mg/L	1	MS-19	SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:01	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:47	MJH

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Date Received: 11/16/2024

Field Sample #: CLMW-05I | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/26/24	11/27/24 12:25	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Bromodichloromethane	0.22	0.50	0.19	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Chloroform	3.4	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Tetrachloroethylene	17	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Trichloroethylene	0.24	1.0	0.17	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 16:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/24/24 16:58
Toluene-d8	99.8	70-130		11/24/24 16:58
4-Bromofluorobenzene	104	70-130		11/24/24 16:58

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfur dioxide	6.4	µg/L	153662	0.906	1	007446-09-5	90	SW-846 8260D	11/21/24	11/24/24 16:58	EEH

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Sample ID: 24K1406-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Biphenyl	ND	18	0.83	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Caprolactam	ND	9.0	0.64	µg/L	1	V-06, L-04	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Aniline	ND	18	8.0	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	0.67	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Butylbenzylphthalate	ND	9.0	0.35	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Chloroaniline	ND	9.0	4.7	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4-Dinitrophenol	ND	9.0	1.2	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,6-Dinitrotoluene	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Hexachlorocyclopentadiene	ND	9.0	2.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Hexachloroethane	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
1-Methylnaphthalene	ND	4.5	0.88	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Methylnaphthalene	ND	4.5	0.84	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Nitroaniline	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
3-Nitroaniline	ND	9.0	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Nitrobenzene	ND	9.0	0.61	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
4-Nitrophenol	ND	9.0	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
Pyridine	ND	18	4.6	µg/L	1	V-34	SW-846 8270E	11/21/24	11/22/24 21:29	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	41.0	15-110		11/22/24 21:29
Phenol-d6	27.0	15-110		11/22/24 21:29
Nitrobenzene-d5	75.6	30-130		11/22/24 21:29
2-Fluorobiphenyl	67.7	30-130		11/22/24 21:29
2,4,6-Tribromophenol	68.8	15-110		11/22/24 21:29
p-Terphenyl-d14	87.5	30-130		11/22/24 21:29

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/22/24	12/5/24 6:04	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	28.8	15-110		12/5/24 6:04	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Sample Flags: Z-01

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	6.3	0.79	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoropentanoic acid (PFPeA)	16	3.1	0.44	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorohexanoic acid (PFHxA)	15	1.6	0.27	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoroheptanoic acid (PFHpA)	15	1.6	0.28	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorooctanoic acid (PFOA)	140	1.6	0.41	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorobutanesulfonic acid (PFBS)	20	1.6	0.34	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorohexanesulfonic acid (PFHxS)	5.3	1.6	0.61	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorooctanesulfonic acid (PFOS)	4.9	1.6	0.39	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.71	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.92	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
11Cl-PF3OUdS (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	2.2	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.9	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Sample Flags: Z-01

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/14/24	12/16/24 12:33	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	90.7	5-130		12/16/24 12:33
13C5-PFPeA	89.1	40-130		12/16/24 12:33
13C5-PFHxA	84.9	40-130		12/16/24 12:33
13C4-PFHpA	95.5	40-130		12/16/24 12:33
13C8-PFOA	78.9	40-130		12/16/24 12:33
13C9-PFNA	86.6	40-130		12/16/24 12:33
13C6-PFDA	79.2	40-130		12/16/24 12:33
13C7-PFUnA	70.9	30-130		12/16/24 12:33
13C2-PFDoA	60.5	10-130		12/16/24 12:33
13C2-PFTeDA	56.4	10-130		12/16/24 12:33
13C3-PFBS	85.2	40-135		12/16/24 12:33
13C3-PFHxS	81.7	40-130		12/16/24 12:33
13C8-PFOS	78.5	40-130		12/16/24 12:33
13C2-4:2FTS	176	40-200		12/16/24 12:33
13C2-6:2FTS	114	40-200		12/16/24 12:33
13C2-8:2FTS	80.1	40-300		12/16/24 12:33
13C8-PFOSA	85.6	40-130		12/16/24 12:33
D3-NMeFOSA	65.3	10-130		12/16/24 12:33
D5-NEtFOSA	62.3	10-130		12/16/24 12:33
D3-NMeFOSAA	72.9	40-170		12/16/24 12:33
D5-NEtFOSAA	68.1	25-135		12/16/24 12:33
D7-NMeFOSE	69.0	10-130		12/16/24 12:33
D9-NEtFOSE	66.8	10-130		12/16/24 12:33
13C3-HFPO-DA	94.3	40-130		12/16/24 12:33

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 21:29	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
gamma-Chlordane [1]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Aldrin [1]	ND	0.046	0.0033	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
alpha-BHC [1]	ND	0.046	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
beta-BHC [1]	ND	0.046	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
delta-BHC [1]	ND	0.046	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0038	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
4,4'-DDD [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
4,4'-DDE [1]	ND	0.036	0.0027	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
4,4'-DDT [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Dieldrin [1]	ND	0.0018	0.0013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endosulfan I [1]	ND	0.046	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endosulfan II [1]	ND	0.073	0.013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endosulfan sulfate [1]	ND	0.073	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endrin [1]	ND	0.073	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endrin aldehyde [1]	ND	0.073	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Endrin ketone [1]	ND	0.073	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Heptachlor [1]	ND	0.046	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Heptachlor epoxide [1]	ND	0.046	0.0034	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Methoxychlor [1]	ND	0.46	0.063	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG
Toxaphene [1]	ND	0.91	0.37	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		11/22/24 21:31
Decachlorobiphenyl [2]	89.5	30-150		11/22/24 21:31
Tetrachloro-m-xylene [1]	71.5	30-150		11/22/24 21:31
Tetrachloro-m-xylene [2]	75.1	30-150		11/22/24 21:31

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1221 [1]	ND	0.18	0.095	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1232 [1]	ND	0.18	0.085	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1242 [1]	ND	0.18	0.098	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1248 [1]	ND	0.18	0.086	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1254 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1262 [1]	ND	0.18	0.075	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM
Aroclor-1268 [1]	ND	0.18	0.069	µg/L	1		SW-846 8082A	11/21/24	11/22/24 13:54	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		11/22/24 13:54
Decachlorobiphenyl [2]	81.8	30-150		11/22/24 13:54
Tetrachloro-m-xylene [1]	69.9	30-150		11/22/24 13:54
Tetrachloro-m-xylene [2]	73.2	30-150		11/22/24 13:54

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.030	0.050	0.025	mg/L	1	J	SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Arsenic	0.0053	0.010	0.0050	mg/L	1	J	SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Barium	0.15	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Calcium	62	0.50	0.21	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Cobalt	0.018	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:53	MJH
Iron	0.071	0.050	0.036	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Lead	0.0060	0.010	0.0044	mg/L	1	B, J	SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Magnesium	28	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Manganese	0.38	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/5/24	12/9/24 15:01	AAJ
Nickel	0.0059	0.010	0.0046	mg/L	1	J	SW-846 6010D	12/13/24	12/17/24 12:34	MJH
Potassium	5.5	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:53	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Sodium	380	2.0	0.38	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:09	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:53	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: CLMW-05S | Sampled: 11/15/2024 10:10

Sample ID: 24K1406-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/26/24	11/27/24 12:25	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: Trip Blank | Sampled: 11/15/2024 00:00

Sample ID: 24K1406-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: Trip Blank | Sampled: 11/15/2024 00:00

Sample ID: 24K1406-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.3	70-130		11/24/24 11:01
Toluene-d8	99.8	70-130		11/24/24 11:01
4-Bromofluorobenzene	104	70-130		11/24/24 11:01

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24K1406

Date Received: 11/16/2024

Field Sample #: Trip Blank | Sampled: 11/15/2024 00:00

Sample ID: 24K1406-03

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/21/24	11/24/24 11:01	EEH

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B393749	520	4.00	12/05/24

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-02RE1 [CLMW-05S]	B394456	509	4.00	12/14/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B394526	50.0	50.0	12/13/24
24K1406-02 [CLMW-05S]	B394526	50.0	50.0	12/13/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-02 [CLMW-05S]	B393825	10.0	10.0	12/05/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B394212	10.0	10.0	12/11/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B392781	111	2.00	11/21/24
24K1406-02 [CLMW-05S]	B392781	110	2.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B392782	111	2.00	11/21/24
24K1406-02 [CLMW-05S]	B392782	110	2.00	11/21/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B392861	5	5.00	11/21/24
24K1406-02 [CLMW-05S]	B392861	5	5.00	11/21/24
24K1406-03 [Trip Blank]	B392861	5	5.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

Pace Analytical Services, LLC - East Longmeadow, Ma

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Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B392794	104	1.00	11/21/24
24K1406-02 [CLMW-05S]	B392794	111	1.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B392875	1020	1.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-02 [CLMW-05S]	B392892	1020	1.00	11/22/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1406-01 [CLMW-05I]	B393172	50.0	50.0	11/26/24
24K1406-02 [CLMW-05S]	B393172	50.0	50.0	11/26/24

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							V-05
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*22.5*		µg/L	25.00		90.0	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104	70-130				
LCS (B392861-BS1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Acetone	85.8	50	µg/L	100.0		85.8	70-160				†
tert-Amyl Alcohol (TAA)	88.3	5.0	µg/L	100.0		88.3	70-130				
tert-Amyl Ethyl Ether (TAEE)	9.54	0.50	µg/L	10.00		95.4	70-130				
tert-Amyl Methyl Ether (TAME)	9.57	0.50	µg/L	10.00		95.7	70-130				
Benzene	9.66	1.0	µg/L	10.00		96.6	70-130				
Bromochloromethane	9.04	1.0	µg/L	10.00		90.4	70-130				
Bromodichloromethane	10.9	0.50	µg/L	10.00		109	70-130				
Bromoform	12.1	1.0	µg/L	10.00		121	70-130				
Bromomethane	9.16	2.0	µg/L	10.00		91.6	40-160				†
2-Butanone (MEK)	74.2	20	µg/L	100.0		74.2	40-160			V-05	†
tert-Butyl Alcohol (TBA)	97.8	20	µg/L	100.0		97.8	40-160				†
n-Butylbenzene	9.13	1.0	µg/L	10.00		91.3	70-130				
sec-Butylbenzene	9.78	1.0	µg/L	10.00		97.8	70-130				
tert-Butylbenzene	10.0	1.0	µg/L	10.00		100	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.21	0.50	µg/L	10.00		92.1	70-130				
Carbon Disulfide	87.4	5.0	µg/L	100.0		87.4	70-130				
Carbon Tetrachloride	10.5	5.0	µg/L	10.00		105	70-130				
Chlorobenzene	11.3	1.0	µg/L	10.00		113	70-130				
Chlorodibromomethane	11.4	0.50	µg/L	10.00		114	70-130				
Chloroethane	8.69	2.0	µg/L	10.00		86.9	70-130				
Chloroform	9.25	2.0	µg/L	10.00		92.5	70-130				
Chloromethane	7.53	2.0	µg/L	10.00		75.3	40-160				†
Cyclohexane	8.58	5.0	µg/L	10.00		85.8	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.74	5.0	µg/L	10.00		87.4	70-130				
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00		110	70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
Dichlorodifluoromethane (Freon 12)	8.08	2.0	µg/L	10.00		80.8	40-160				†
1,1-Dichloroethane	9.30	1.0	µg/L	10.00		93.0	70-130				
1,2-Dichloroethane	9.57	1.0	µg/L	10.00		95.7	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
LCS (B392861-BS1)				Prepared: 11/21/24 Analyzed: 11/24/24							
1,1-Dichloroethylene	9.41	1.0	µg/L	10.00		94.1	70-130				
cis-1,2-Dichloroethylene	9.20	1.0	µg/L	10.00		92.0	70-130				
trans-1,2-Dichloroethylene	9.26	1.0	µg/L	10.00		92.6	70-130				
1,2-Dichloropropane	9.72	1.0	µg/L	10.00		97.2	70-130				
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130				
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130				
Diisopropyl Ether (DIPE)	9.07	0.50	µg/L	10.00		90.7	70-130				
Ethanol	99.9	50	µg/L	100.0		99.9	40-160				
Ethylbenzene	10.9	1.0	µg/L	10.00		109	70-130				
2-Hexanone (MBK)	95.1	10	µg/L	100.0		95.1	70-160				†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00		110	70-130				
p-Isopropyltoluene (p-Cymene)	9.84	1.0	µg/L	10.00		98.4	70-130				
Methyl Acetate	9.18	1.0	µg/L	10.00		91.8	70-130				
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.00		98.2	70-130				
Methyl Cyclohexane	9.40	1.0	µg/L	10.00		94.0	70-130				
Methylene Chloride	9.32	5.0	µg/L	10.00		93.2	70-130				
4-Methyl-2-pentanone (MIBK)	96.3	10	µg/L	100.0		96.3	70-160				†
Naphthalene	11.2	2.0	µg/L	10.00		112	40-130				†
n-Propylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
Styrene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.00		107	70-130				
Tetrachloroethylene	11.3	1.0	µg/L	10.00		113	70-130				
Toluene	10.4	1.0	µg/L	10.00		104	70-130				
1,2,3-Trichlorobenzene	13.0	5.0	µg/L	10.00		130	70-130			V-20	
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.00		102	70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130				
Trichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
Trichlorofluoromethane (Freon 11)	9.72	2.0	µg/L	10.00		97.2	70-130				
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.72	1.0	µg/L	10.00		97.2	70-130				
1,2,4-Trimethylbenzene	9.89	1.0	µg/L	10.00		98.9	70-130				
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130				
Vinyl Chloride	9.25	2.0	µg/L	10.00		92.5	40-160				†
m+p Xylene	21.7	2.0	µg/L	20.00		109	70-130				
o-Xylene	11.0	1.0	µg/L	10.00		110	70-130				
Xylenes (total)	32.7	1.0	µg/L	30.00		109	0-200				
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.00		89.7	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104	70-130				
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Acetone	85.2	50	µg/L	100.0		85.2	70-160	0.679	25		†
tert-Amyl Alcohol (TAA)	87.8	5.0	µg/L	100.0		87.8	70-130	0.556	25		
tert-Amyl Ethyl Ether (TAEE)	9.94	0.50	µg/L	10.00		99.4	70-130	4.11	25		
tert-Amyl Methyl Ether (TAME)	9.97	0.50	µg/L	10.00		99.7	70-130	4.09	25		
Benzene	10.2	1.0	µg/L	10.00		102	70-130	5.24	25		
Bromochloromethane	9.88	1.0	µg/L	10.00		98.8	70-130	8.88	25		
Bromodichloromethane	11.1	0.50	µg/L	10.00		111	70-130	1.09	25		
Bromoform	11.7	1.0	µg/L	10.00		117	70-130	3.37	25		
Bromomethane	11.2	2.0	µg/L	10.00		112	40-160	20.5	25		†
2-Butanone (MEK)	74.1	20	µg/L	100.0		74.1	40-160	0.202	25	V-05	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24							
tert-Butyl Alcohol (TBA)	94.6	20	µg/L	100.0		94.6	40-160	3.41	25		†
n-Butylbenzene	9.50	1.0	µg/L	10.00		95.0	70-130	3.97	25		
sec-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	3.91	25		
tert-Butylbenzene	10.6	1.0	µg/L	10.00		106	70-130	5.35	25		
tert-Butyl Ethyl Ether (TBEE)	9.39	0.50	µg/L	10.00		93.9	70-130	1.94	25		
Carbon Disulfide	92.4	5.0	µg/L	100.0		92.4	70-130	5.65	25		
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130	5.76	25		
Chlorobenzene	11.6	1.0	µg/L	10.00		116	70-130	2.10	25		
Chlorodibromomethane	11.7	0.50	µg/L	10.00		117	70-130	3.03	25		
Chloroethane	9.06	2.0	µg/L	10.00		90.6	70-130	4.17	25		
Chloroform	9.62	2.0	µg/L	10.00		96.2	70-130	3.92	25		
Chloromethane	8.27	2.0	µg/L	10.00		82.7	40-160	9.37	25		†
Cyclohexane	9.32	5.0	µg/L	10.00		93.2	70-130	8.27	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.43	5.0	µg/L	10.00		94.3	70-130	7.59	25		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.00		111	70-130	0.181	25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	5.21	25		
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	1.58	25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	1.20	25		
Dichlorodifluoromethane (Freon 12)	8.92	2.0	µg/L	10.00		89.2	40-160	9.88	25		†
1,1-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130	9.33	25		
1,2-Dichloroethane	9.91	1.0	µg/L	10.00		99.1	70-130	3.49	25		
1,1-Dichloroethylene	10.4	1.0	µg/L	10.00		104	70-130	9.61	25		
cis-1,2-Dichloroethylene	9.68	1.0	µg/L	10.00		96.8	70-130	5.08	25		
trans-1,2-Dichloroethylene	9.39	1.0	µg/L	10.00		93.9	70-130	1.39	25		
1,2-Dichloropropane	10.1	1.0	µg/L	10.00		101	70-130	3.64	25		
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00		108	70-130	6.10	25		
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130	1.07	25		
Diisopropyl Ether (DIPE)	9.42	0.50	µg/L	10.00		94.2	70-130	3.79	25		
Ethanol	94.6	50	µg/L	100.0		94.6	40-160	5.49	25		
Ethylbenzene	11.4	1.0	µg/L	10.00		114	70-130	4.68	25		
2-Hexanone (MBK)	93.8	10	µg/L	100.0		93.8	70-160	1.36	25		†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.00		113	70-130	3.23	25		
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00		104	70-130	5.05	25		
Methyl Acetate	9.16	1.0	µg/L	10.00		91.6	70-130	0.218	25		
Methyl tert-Butyl Ether (MTBE)	9.99	1.0	µg/L	10.00		99.9	70-130	1.72	25		
Methyl Cyclohexane	10.0	1.0	µg/L	10.00		100	70-130	6.19	25		
Methylene Chloride	9.43	5.0	µg/L	10.00		94.3	70-130	1.17	25		
4-Methyl-2-pentanone (MIBK)	99.0	10	µg/L	100.0		99.0	70-160	2.68	25		†
Naphthalene	11.4	2.0	µg/L	10.00		114	40-130	1.15	25		†
n-Propylbenzene	11.4	1.0	µg/L	10.00		114	70-130	8.99	25		
Styrene	11.8	1.0	µg/L	10.00		118	70-130	2.59	25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.00		105	70-130	2.08	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130	3.55	25		
Toluene	11.1	1.0	µg/L	10.00		111	70-130	6.54	25		
1,2,3-Trichlorobenzene	13.1	5.0	µg/L	10.00		**131**	* 70-130	0.920	25	V-20, L-07	
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	0.0876	25		
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130	7.22	25		
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	3.77	25		
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	9.92	25		
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.00		103	70-130	5.89	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130	0.00	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B												
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.00		101		70-130	4.03	25		
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103		70-130	3.77	25		
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.00		113		70-130	6.29	25		
Vinyl Chloride	10.4	2.0	µg/L	10.00		104		40-160	11.2	25		†
m+p Xylene	22.6	2.0	µg/L	20.00		113		70-130	3.83	25		
o-Xylene	11.4	1.0	µg/L	10.00		114		70-130	3.83	25		
Xylenes (total)	34.0	1.0	µg/L	30.00		113		0-200	3.83			
Surrogate: 1,2-Dichloroethane-d4	*22.3*		µg/L	25.00		89.1		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.00		101		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104		70-130				
Matrix Spike (B392861-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/24/24								
Acetone	99.8	50	µg/L	100.0	ND	99.8		70-130				
tert-Amyl Alcohol (TAA)	93.4	5.0	µg/L	100.0	ND	93.4		70-130				
tert-Amyl Ethyl Ether (TAEE)	10.8	0.50	µg/L	10.00	ND	108		70-130				
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.00	ND	104		70-130				
Benzene	11.1	1.0	µg/L	10.00	ND	111		70-130				
Bromochloromethane	11.0	1.0	µg/L	10.00	ND	110		70-130				
Bromodichloromethane	12.9	0.50	µg/L	10.00	0.240	127		70-130				
Bromoform	13.3	1.0	µg/L	10.00	ND	**133**	*	70-130			MS-15	
Bromomethane	10.5	2.0	µg/L	10.00	ND	105		70-130				
2-Butanone (MEK)	82.0	20	µg/L	100.0	ND	82.0		70-130			V-05	
tert-Butyl Alcohol (TBA)	103	20	µg/L	100.0	ND	103		70-130				
n-Butylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130				
sec-Butylbenzene	12.0	1.0	µg/L	10.00	ND	120		70-130				
tert-Butylbenzene	12.1	1.0	µg/L	10.00	ND	121		70-130				
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.00	ND	104		70-130				
Carbon Disulfide	112	5.0	µg/L	100.0	ND	112		70-130				
Carbon Tetrachloride	13.2	5.0	µg/L	10.00	ND	**132**	*	70-130			MS-15	
Chlorobenzene	12.7	1.0	µg/L	10.00	ND	127		70-130				
Chlorodibromomethane	13.2	0.50	µg/L	10.00	ND	**132**	*	70-130			MS-15	
Chloroethane	8.09	2.0	µg/L	10.00	ND	80.9		70-130				
Chloroform	14.3	2.0	µg/L	10.00	3.38	109		70-130				
Chloromethane	10.3	2.0	µg/L	10.00	ND	103		70-130				
Cyclohexane	10.3	5.0	µg/L	10.00	ND	103		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.3	5.0	µg/L	10.00	ND	103		70-130				
1,2-Dibromoethane (EDB)	12.8	0.50	µg/L	10.00	ND	128		70-130				
1,2-Dichlorobenzene	12.4	1.0	µg/L	10.00	ND	124		70-130				
1,3-Dichlorobenzene	12.3	1.0	µg/L	10.00	ND	123		70-130				
1,4-Dichlorobenzene	12.3	1.0	µg/L	10.00	ND	123		70-130				
Dichlorodifluoromethane (Freon 12)	12.3	2.0	µg/L	10.00	ND	123		70-130				
1,1-Dichloroethane	11.4	1.0	µg/L	10.00	ND	114		70-130				
1,2-Dichloroethane	11.7	1.0	µg/L	10.00	ND	117		70-130				
1,1-Dichloroethylene	11.9	1.0	µg/L	10.00	ND	119		70-130				
cis-1,2-Dichloroethylene	11.0	1.0	µg/L	10.00	ND	110		70-130				
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.00	ND	114		70-130				
1,2-Dichloropropane	10.8	1.0	µg/L	10.00	ND	108		70-130				
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.00	ND	113		70-130				
trans-1,3-Dichloropropene	11.5	0.50	µg/L	10.00	ND	115		70-130				
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.00	ND	101		70-130				
Ethanol	98.3	50	µg/L	100.0	ND	98.3		70-130				
Ethylbenzene	12.4	1.0	µg/L	10.00	ND	124		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B											
Matrix Spike (B392861-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/24/24							
2-Hexanone (MBK)	113	10	µg/L	100.0	ND	113		70-130			
Isopropylbenzene (Cumene)	12.9	1.0	µg/L	10.00	ND	129		70-130			
p-Isopropyltoluene (p-Cymene)	11.8	1.0	µg/L	10.00	ND	118		70-130			
Methyl Acetate	7.40	1.0	µg/L	10.00	ND	74.0		70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.00	0.230	108		70-130			
Methyl Cyclohexane	11.3	1.0	µg/L	10.00	ND	113		70-130			
Methylene Chloride	10.5	5.0	µg/L	10.00	ND	105		70-130			
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100.0	ND	113		70-130			
Naphthalene	12.8	2.0	µg/L	10.00	ND	128		70-130			
n-Propylbenzene	12.8	1.0	µg/L	10.00	ND	128		70-130			
Styrene	11.8	1.0	µg/L	10.00	ND	118		70-130			
1,1,2,2-Tetrachloroethane	11.6	0.50	µg/L	10.00	ND	116		70-130			
Tetrachloroethylene	29.6	1.0	µg/L	10.00	15.8	**138**	*	70-130			MS-12
Toluene	12.3	1.0	µg/L	10.00	ND	123		70-130			
1,2,3-Trichlorobenzene	15.4	5.0	µg/L	10.00	ND	**154**	*	70-130			MS-15, V-20
1,2,4-Trichlorobenzene	13.8	1.0	µg/L	10.00	ND	**138**	*	70-130			MS-15
1,1,1-Trichloroethane	12.5	1.0	µg/L	10.00	ND	125		70-130			
1,1,2-Trichloroethane	12.2	1.0	µg/L	10.00	ND	122		70-130			
Trichloroethylene	12.4	1.0	µg/L	10.00	0.230	122		70-130			
Trichlorofluoromethane (Freon 11)	13.0	2.0	µg/L	10.00	ND	130		70-130			
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.00	ND	115		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.00	ND	113		70-130			
1,2,4-Trimethylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130			
1,3,5-Trimethylbenzene	12.7	1.0	µg/L	10.00	ND	127		70-130			
Vinyl Chloride	12.4	2.0	µg/L	10.00	ND	124		70-130			
m+p Xylene	25.5	2.0	µg/L	20.00	ND	127		70-130			
o-Xylene	12.8	1.0	µg/L	10.00	ND	128		70-130			
Xylenes (total)	38.3	1.0	µg/L	30.00	ND	128		0-200			
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.00		93.2		70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.00		102		70-130			
Matrix Spike Dup (B392861-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/24/24							
Acetone	101	50	µg/L	100.0	ND	101		70-130	1.69	30	
tert-Amyl Alcohol (TAA)	97.4	5.0	µg/L	100.0	ND	97.4		70-130	4.20	30	
tert-Amyl Ethyl Ether (TAEE)	10.7	0.50	µg/L	10.00	ND	107		70-130	1.02	30	
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.00	ND	108		70-130	3.68	30	
Benzene	11.7	1.0	µg/L	10.00	ND	117		70-130	4.92	30	
Bromochloromethane	11.3	1.0	µg/L	10.00	ND	113		70-130	1.97	30	
Bromodichloromethane	13.3	0.50	µg/L	10.00	0.240	**131**	*	70-130	3.05	30	MS-24
Bromoform	13.8	1.0	µg/L	10.00	ND	**138**	*	70-130	3.17	30	MS-15
Bromomethane	11.8	2.0	µg/L	10.00	ND	118		70-130	11.5	30	
2-Butanone (MEK)	88.2	20	µg/L	100.0	ND	88.2		70-130	7.34	30	V-05
tert-Butyl Alcohol (TBA)	104	20	µg/L	100.0	ND	104		70-130	1.21	30	
n-Butylbenzene	11.7	1.0	µg/L	10.00	ND	117		70-130	1.20	30	
sec-Butylbenzene	12.2	1.0	µg/L	10.00	ND	122		70-130	1.49	30	
tert-Butylbenzene	12.6	1.0	µg/L	10.00	ND	126		70-130	3.72	30	
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.00	ND	107		70-130	2.95	30	
Carbon Disulfide	114	5.0	µg/L	100.0	ND	114		70-130	1.60	30	
Carbon Tetrachloride	13.2	5.0	µg/L	10.00	ND	**132**	*	70-130	0.0756	30	MS-15
Chlorobenzene	13.3	1.0	µg/L	10.00	ND	**133**	*	70-130	4.15	30	MS-24
Chlorodibromomethane	13.1	0.50	µg/L	10.00	ND	**131**	*	70-130	0.762	30	MS-15

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B											
Matrix Spike Dup (B392861-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/24/24							
Chloroethane	8.50	2.0	µg/L	10.00	ND	85.0		70-130	4.94	30	
Chloroform	14.5	2.0	µg/L	10.00	3.38	111		70-130	1.39	30	
Chloromethane	10.8	2.0	µg/L	10.00	ND	108		70-130	4.26	30	
Cyclohexane	10.4	5.0	µg/L	10.00	ND	104		70-130	1.35	30	
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.00	ND	109		70-130	5.28	30	
1,2-Dibromoethane (EDB)	12.6	0.50	µg/L	10.00	ND	126		70-130	1.26	30	
1,2-Dichlorobenzene	12.8	1.0	µg/L	10.00	ND	128		70-130	3.01	30	
1,3-Dichlorobenzene	12.5	1.0	µg/L	10.00	ND	125		70-130	1.29	30	
1,4-Dichlorobenzene	12.5	1.0	µg/L	10.00	ND	125		70-130	2.10	30	
Dichlorodifluoromethane (Freon 12)	12.4	2.0	µg/L	10.00	ND	124		70-130	0.647	30	
1,1-Dichloroethane	11.6	1.0	µg/L	10.00	ND	116		70-130	1.74	30	
1,2-Dichloroethane	11.2	1.0	µg/L	10.00	ND	112		70-130	4.01	30	
1,1-Dichloroethylene	12.5	1.0	µg/L	10.00	ND	125		70-130	5.24	30	
cis-1,2-Dichloroethylene	11.7	1.0	µg/L	10.00	ND	117		70-130	5.81	30	
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.00	ND	114		70-130	0.789	30	
1,2-Dichloropropane	11.0	1.0	µg/L	10.00	ND	110		70-130	1.74	30	
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.00	ND	112		70-130	1.25	30	
trans-1,3-Dichloropropene	11.6	0.50	µg/L	10.00	ND	116		70-130	1.30	30	
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.00	ND	104		70-130	2.44	30	
Ethanol	108	50	µg/L	100.0	ND	108		70-130	9.44	30	
Ethylbenzene	13.0	1.0	µg/L	10.00	ND	130		70-130	4.63	30	
2-Hexanone (MBK)	111	10	µg/L	100.0	ND	111		70-130	1.64	30	
Isopropylbenzene (Cumene)	13.6	1.0	µg/L	10.00	ND	**136**	*	70-130	4.91	30	MS-24
p-Isopropyltoluene (p-Cymene)	12.2	1.0	µg/L	10.00	ND	122		70-130	3.33	30	
Methyl Acetate	7.91	1.0	µg/L	10.00	ND	79.1		70-130	6.66	30	
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.00	0.230	110		70-130	1.89	30	
Methyl Cyclohexane	11.0	1.0	µg/L	10.00	ND	110		70-130	2.70	30	
Methylene Chloride	10.5	5.0	µg/L	10.00	ND	105		70-130	0.380	30	
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100.0	ND	114		70-130	0.529	30	
Naphthalene	13.5	2.0	µg/L	10.00	ND	**135**	*	70-130	5.32	30	MS-24
n-Propylbenzene	13.1	1.0	µg/L	10.00	ND	**131**	*	70-130	2.63	30	MS-24
Styrene	12.3	1.0	µg/L	10.00	ND	123		70-130	3.65	30	
1,1,2,2-Tetrachloroethane	11.8	0.50	µg/L	10.00	ND	118		70-130	1.80	30	
Tetrachloroethylene	29.0	1.0	µg/L	10.00	15.8	**132**	*	70-130	2.29	30	MS-12
Toluene	12.4	1.0	µg/L	10.00	ND	124		70-130	0.889	30	
1,2,3-Trichlorobenzene	15.8	5.0	µg/L	10.00	ND	**158**	*	70-130	2.82	30	MS-15, V-20
1,2,4-Trichlorobenzene	14.3	1.0	µg/L	10.00	ND	**143**	*	70-130	3.63	30	MS-15
1,1,1-Trichloroethane	13.2	1.0	µg/L	10.00	ND	**132**	*	70-130	5.36	30	MS-24
1,1,2-Trichloroethane	12.1	1.0	µg/L	10.00	ND	121		70-130	0.493	30	
Trichloroethylene	13.2	1.0	µg/L	10.00	0.230	130		70-130	6.24	30	
Trichlorofluoromethane (Freon 11)	13.3	2.0	µg/L	10.00	ND	**133**	*	70-130	2.43	30	MS-24
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.00	ND	116		70-130	0.780	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.00	ND	116		70-130	3.32	30	
1,2,4-Trimethylbenzene	11.7	1.0	µg/L	10.00	ND	117		70-130	1.20	30	
1,3,5-Trimethylbenzene	12.9	1.0	µg/L	10.00	ND	129		70-130	1.48	30	
Vinyl Chloride	12.5	2.0	µg/L	10.00	ND	125		70-130	0.321	30	
m+p Xylene	26.2	2.0	µg/L	20.00	ND	**131**	*	70-130	2.63	20	MS-24
o-Xylene	12.8	1.0	µg/L	10.00	ND	128		70-130	0.0780	30	
Xylenes (total)	39.0	1.0	µg/L	30.00	ND	130		0-200	1.79		
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.00		95.0		70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.8		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
Matrix Spike Dup (B392861-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/24/24						
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.00		104	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C										
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04, V-06
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C											
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	20	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*209*		µg/L	400.0		52.2		15-110			
Surrogate: Phenol-d6	*136*		µg/L	400.0		34.0		15-110			
Surrogate: Nitrobenzene-d5	*165*		µg/L	200.0		82.3		30-130			
Surrogate: 2-Fluorobiphenyl	*151*		µg/L	200.0		75.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*345*		µg/L	400.0		86.3		15-110			
Surrogate: p-Terphenyl-d14	*191*		µg/L	200.0		95.3		30-130			
LCS (B392794-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24							
2,3,4,6-Tetrachlorophenol	98.3	20	µg/L	100.0		98.3		40-140			R-05
Atrazine	107	20	µg/L	100.0		107		40-140			
Benzaldehyde	79.8	10	µg/L	100.0		79.8		40-140			
Biphenyl	75.8	20	µg/L	100.0		75.8		40-140			R-05
Caprolactam	31.6	10	µg/L	100.0		**31.6**	*	40-140			V-06, L-04
Acenaphthene	78.4	5.0	µg/L	100.0		78.4		40-140			R-05
Acenaphthylene	82.4	5.0	µg/L	100.0		82.4		40-140			
Acetophenone	71.2	10	µg/L	100.0		71.2		40-140			
Aniline	64.7	20	µg/L	100.0		64.7		40-140			V-05
Anthracene	89.7	5.0	µg/L	100.0		89.7		40-140			
Benzo(a)anthracene	87.3	5.0	µg/L	100.0		87.3		40-140			
Benzo(a)pyrene	90.6	5.0	µg/L	100.0		90.6		40-140			
Benzo(b)fluoranthene	91.6	5.0	µg/L	100.0		91.6		40-140			
Benzo(g,h,i)perylene	101	5.0	µg/L	100.0		101		40-140			
Benzo(k)fluoranthene	93.3	5.0	µg/L	100.0		93.3		40-140			
Bis(2-chloroethoxy)methane	82.6	10	µg/L	100.0		82.6		40-140			
Bis(2-chloroethyl)ether	73.6	10	µg/L	100.0		73.6		40-140			
2,2'-oxybis(1-Chloropropane)	75.7	10	µg/L	100.0		75.7		40-140			
Bis(2-Ethylhexyl)phthalate	77.2	10	µg/L	100.0		77.2		40-140			
4-Bromophenylphenylether	87.7	10	µg/L	100.0		87.7		40-140			
Butylbenzylphthalate	86.7	10	µg/L	100.0		86.7		40-140			
Carbazole	90.1	10	µg/L	100.0		90.1		40-140			
4-Chloroaniline	78.6	10	µg/L	100.0		78.6		40-140			
4-Chloro-3-methylphenol	79.8	10	µg/L	100.0		79.8		30-130			
2-Chloronaphthalene	71.0	10	µg/L	100.0		71.0		40-140			R-05
2-Chlorophenol	73.7	10	µg/L	100.0		73.7		30-130			R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392794 - SW-846 3510C											
LCS (B392794-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24							
4-Chlorophenylphenylether	83.7	10	µg/L	100.0		83.7	40-140				
Chrysene	87.5	5.0	µg/L	100.0		87.5	40-140				
Dibenz(a,h)anthracene	95.2	5.0	µg/L	100.0		95.2	40-140			V-04	
Dibenzofuran	84.3	5.0	µg/L	100.0		84.3	40-140				
Di-n-butylphthalate	80.0	10	µg/L	100.0		80.0	40-140				
3,3-Dichlorobenzidine	90.6	10	µg/L	100.0		90.6	40-140				
2,4-Dichlorophenol	83.8	10	µg/L	100.0		83.8	30-130			R-05	
Diethylphthalate	80.9	10	µg/L	100.0		80.9	40-140				
2,4-Dimethylphenol	74.2	10	µg/L	100.0		74.2	30-130				
Dimethylphthalate	87.1	10	µg/L	100.0		87.1	40-140				
4,6-Dinitro-2-methylphenol	86.7	20	µg/L	100.0		86.7	30-130			R-05	
2,4-Dinitrophenol	75.7	10	µg/L	100.0		75.7	30-130			V-04, R-05	
2,4-Dinitrotoluene	88.0	10	µg/L	100.0		88.0	40-140				
2,6-Dinitrotoluene	91.3	10	µg/L	100.0		91.3	40-140				
Di-n-octylphthalate	76.4	10	µg/L	100.0		76.4	40-140			V-04	
Fluoranthene	89.6	5.0	µg/L	100.0		89.6	40-140				
Fluorene	87.3	5.0	µg/L	100.0		87.3	40-140				
Hexachlorobenzene	90.8	10	µg/L	100.0		90.8	40-140				
Hexachlorobutadiene	51.2	10	µg/L	100.0		51.2	40-140			R-05	
Hexachlorocyclopentadiene	63.6	10	µg/L	100.0		63.6	30-140				†
Hexachloroethane	43.3	10	µg/L	100.0		43.3	40-140				
Indeno(1,2,3-cd)pyrene	99.2	5.0	µg/L	100.0		99.2	40-140			V-04	
Isophorone	86.9	10	µg/L	100.0		86.9	40-140				
1-Methylnaphthalene	67.8	5.0	µg/L	100.0		67.8	40-140			R-05	
2-Methylnaphthalene	64.1	5.0	µg/L	100.0		64.1	40-140				
2-Methylphenol	68.0	10	µg/L	100.0		68.0	30-130				
3/4-Methylphenol	61.9	10	µg/L	100.0		61.9	30-130				
Naphthalene	70.2	5.0	µg/L	100.0		70.2	40-140				
2-Nitroaniline	94.5	10	µg/L	100.0		94.5	40-140				
3-Nitroaniline	87.5	10	µg/L	100.0		87.5	40-140				
4-Nitroaniline	84.8	10	µg/L	100.0		84.8	40-140				
Nitrobenzene	83.3	10	µg/L	100.0		83.3	40-140				
2-Nitrophenol	82.1	10	µg/L	100.0		82.1	30-130			R-05	
4-Nitrophenol	51.5	10	µg/L	100.0		51.5	10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	87.9	10	µg/L	100.0		87.9	40-140				
N-Nitrosodi-n-propylamine	65.9	10	µg/L	100.0		65.9	40-140				
Pentachlorophenol	79.2	10	µg/L	100.0		79.2	30-130			R-05	
Phenanthrene	87.3	5.0	µg/L	100.0		87.3	40-140				
Phenol	40.0	10	µg/L	100.0		40.0	20-130			R-05	†
Pyrene	95.4	5.0	µg/L	100.0		95.4	40-140				
Pyridine	19.8	20	µg/L	100.0		19.8	10-140			V-34, J	†
1,2,4,5-Tetrachlorobenzene	75.6	10	µg/L	100.0		75.6	40-140			R-05	
2,4,5-Trichlorophenol	92.9	10	µg/L	100.0		92.9	30-130			R-05	
2,4,6-Trichlorophenol	88.6	10	µg/L	100.0		88.6	30-130			R-05	
Surrogate: 2-Fluorophenol	*240*		µg/L	400.0		60.0	15-110				
Surrogate: Phenol-d6	*167*		µg/L	400.0		41.8	15-110				
Surrogate: Nitrobenzene-d5	*184*		µg/L	200.0		91.8	30-130				
Surrogate: 2-Fluorobiphenyl	*169*		µg/L	200.0		84.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*398*		µg/L	400.0		99.4	15-110				
Surrogate: p-Terphenyl-d14	*195*		µg/L	200.0		97.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B392794 - SW-846 3510C													
LCS Dup (B392794-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24									
2,3,4,6-Tetrachlorophenol	57.3	20	µg/L	100.0		57.3		40-140	**52.7**	*	20	R-05	
Atrazine	105	20	µg/L	100.0		105		40-140	1.98		20		
Benzaldehyde	79.9	10	µg/L	100.0		79.9		40-140	0.0626		20		
Biphenyl	61.1	20	µg/L	100.0		61.1		40-140	**21.5**	*	20	R-05	
Caprolactam	31.4	10	µg/L	100.0		**31.4**	*	40-140	0.761		20	L-04, V-06	
Acenaphthene	63.8	5.0	µg/L	100.0		63.8		40-140	**20.5**	*	20	R-05	
Acenaphthylene	70.2	5.0	µg/L	100.0		70.2		40-140	16.0		20		
Acetophenone	69.6	10	µg/L	100.0		69.6		40-140	2.33		20		
Aniline	66.8	20	µg/L	100.0		66.8		40-140	3.13		50	V-05	‡
Anthracene	84.1	5.0	µg/L	100.0		84.1		40-140	6.48		20		
Benzo(a)anthracene	84.9	5.0	µg/L	100.0		84.9		40-140	2.76		20		
Benzo(a)pyrene	87.3	5.0	µg/L	100.0		87.3		40-140	3.63		20		
Benzo(b)fluoranthene	88.0	5.0	µg/L	100.0		88.0		40-140	4.01		20		
Benzo(g,h,i)perylene	98.2	5.0	µg/L	100.0		98.2		40-140	3.22		20		
Benzo(k)fluoranthene	90.5	5.0	µg/L	100.0		90.5		40-140	3.09		20		
Bis(2-chloroethoxy)methane	77.8	10	µg/L	100.0		77.8		40-140	5.90		20		
Bis(2-chloroethyl)ether	74.5	10	µg/L	100.0		74.5		40-140	1.15		20		
2,2'-oxybis(1-Chloropropane)	71.2	10	µg/L	100.0		71.2		40-140	6.10		20		
Bis(2-Ethylhexyl)phthalate	78.3	10	µg/L	100.0		78.3		40-140	1.45		20		
4-Bromophenylphenylether	80.2	10	µg/L	100.0		80.2		40-140	8.95		20		
Butylbenzylphthalate	84.4	10	µg/L	100.0		84.4		40-140	2.65		20		
Carbazole	87.2	10	µg/L	100.0		87.2		40-140	3.29		20		
4-Chloroaniline	77.0	10	µg/L	100.0		77.0		40-140	2.11		20		
4-Chloro-3-methylphenol	70.9	10	µg/L	100.0		70.9		30-130	11.8		20		
2-Chloronaphthalene	52.4	10	µg/L	100.0		52.4		40-140	**30.1**	*	20	R-05	
2-Chlorophenol	53.0	10	µg/L	100.0		53.0		30-130	**32.6**	*	20	R-05	
4-Chlorophenylphenylether	74.5	10	µg/L	100.0		74.5		40-140	11.6		20		
Chrysene	84.6	5.0	µg/L	100.0		84.6		40-140	3.28		20		
Dibenz(a,h)anthracene	96.9	5.0	µg/L	100.0		96.9		40-140	1.81		20	V-04	
Dibenzofuran	72.7	5.0	µg/L	100.0		72.7		40-140	14.8		20		
Di-n-butylphthalate	78.4	10	µg/L	100.0		78.4		40-140	2.03		20		
3,3-Dichlorobenzidine	85.6	10	µg/L	100.0		85.6		40-140	5.76		20		
2,4-Dichlorophenol	57.9	10	µg/L	100.0		57.9		30-130	**36.5**	*	20	R-05	
Diethylphthalate	79.7	10	µg/L	100.0		79.7		40-140	1.47		20		
2,4-Dimethylphenol	71.0	10	µg/L	100.0		71.0		30-130	4.41		20		
Dimethylphthalate	85.0	10	µg/L	100.0		85.0		40-140	2.43		50		‡
4,6-Dinitro-2-methylphenol	51.0	20	µg/L	100.0		51.0		30-130	**51.8**	*	50	R-05	‡
2,4-Dinitrophenol	27.1	10	µg/L	100.0		**27.1**	*	30-130	**94.5**	*	50	L-07A, V-04	‡
2,4-Dinitrotoluene	86.6	10	µg/L	100.0		86.6		40-140	1.50		20		
2,6-Dinitrotoluene	90.1	10	µg/L	100.0		90.1		40-140	1.39		20		
Di-n-octylphthalate	75.8	10	µg/L	100.0		75.8		40-140	0.789		20	V-04	
Fluoranthene	88.9	5.0	µg/L	100.0		88.9		40-140	0.784		20		
Fluorene	75.8	5.0	µg/L	100.0		75.8		40-140	14.1		20		
Hexachlorobenzene	85.7	10	µg/L	100.0		85.7		40-140	5.83		20		
Hexachlorobutadiene	40.4	10	µg/L	100.0		40.4		40-140	**23.6**	*	20	R-05	
Hexachlorocyclopentadiene	47.5	10	µg/L	100.0		47.5		30-140	28.9		50		† ‡
Hexachloroethane	37.0	10	µg/L	100.0		**37.0**	*	40-140	15.5		50	L-07	‡
Indeno(1,2,3-cd)pyrene	99.6	5.0	µg/L	100.0		99.6		40-140	0.412		50	V-04	‡
Isophorone	81.4	10	µg/L	100.0		81.4		40-140	6.56		20		
1-Methylnaphthalene	53.8	5.0	µg/L	100.0		53.8		40-140	**22.9**	*	20	R-05	
2-Methylnaphthalene	53.6	5.0	µg/L	100.0		53.6		40-140	17.9		20		
2-Methylphenol	63.8	10	µg/L	100.0		63.8		30-130	6.37		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392794 - SW-846 3510C											
LCS Dup (B392794-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24							
3/4-Methylphenol	57.4	10	µg/L	100.0		57.4	30-130	7.59	20		
Naphthalene	59.6	5.0	µg/L	100.0		59.6	40-140	16.4	20		
2-Nitroaniline	88.5	10	µg/L	100.0		88.5	40-140	6.56	20		
3-Nitroaniline	83.5	10	µg/L	100.0		83.5	40-140	4.74	20		
4-Nitroaniline	80.9	10	µg/L	100.0		80.9	40-140	4.66	20		
Nitrobenzene	79.0	10	µg/L	100.0		79.0	40-140	5.34	20		
2-Nitrophenol	50.5	10	µg/L	100.0		50.5	30-130	**47.8** *	20	R-05	
4-Nitrophenol	24.0	10	µg/L	100.0		24.0	10-130	**72.7** *	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	81.1	10	µg/L	100.0		81.1	40-140	8.05	20		
N-Nitrosodi-n-propylamine	65.5	10	µg/L	100.0		65.5	40-140	0.624	20		
Pentachlorophenol	43.7	10	µg/L	100.0		43.7	30-130	**57.7** *	50	R-05	‡
Phenanthrene	83.1	5.0	µg/L	100.0		83.1	40-140	4.88	20		
Phenol	31.2	10	µg/L	100.0		31.2	20-130	**24.7** *	20	R-05	†
Pyrene	88.2	5.0	µg/L	100.0		88.2	40-140	7.80	20		
Pyridine	20.3	20	µg/L	100.0		20.3	10-140	2.39	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	54.2	10	µg/L	100.0		54.2	40-140	**33.0** *	20	R-05	
2,4,5-Trichlorophenol	56.4	10	µg/L	100.0		56.4	30-130	**48.8** *	20	R-05	
2,4,6-Trichlorophenol	51.4	10	µg/L	100.0		51.4	30-130	**53.1** *	50	R-05	‡
Surrogate: 2-Fluorophenol	*143*		µg/L	400.0		35.7	15-110				
Surrogate: Phenol-d6	*122*		µg/L	400.0		30.5	15-110				
Surrogate: Nitrobenzene-d5	*165*		µg/L	200.0		82.5	30-130				
Surrogate: 2-Fluorobiphenyl	*151*		µg/L	200.0		75.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*245*		µg/L	400.0		61.3	15-110				
Surrogate: p-Terphenyl-d14	*174*		µg/L	200.0		87.0	30-130				
Matrix Spike (B392794-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24							
2,3,4,6-Tetrachlorophenol	113	20	µg/L	97.86	ND	116	40-140				
Atrazine	117	20	µg/L	97.86	ND	120	40-140				
Benzaldehyde	86.9	9.8	µg/L	97.86	ND	88.8	40-140				
Biphenyl	92.9	20	µg/L	97.86	ND	94.9	40-140				
Caprolactam	27.4	9.8	µg/L	97.86	ND	**28.0** *	40-140			MS-09, V-06	
Acenaphthene	89.0	4.9	µg/L	97.86	ND	90.9	40-140				
Acenaphthylene	97.5	4.9	µg/L	97.86	ND	99.6	40-140				
Acetophenone	77.8	9.8	µg/L	97.86	ND	79.5	40-140				
Aniline	56.8	20	µg/L	97.86	ND	58.1	40-140			V-05	
Anthracene	99.1	4.9	µg/L	97.86	ND	101	40-140				
Benzo(a)anthracene	98.2	4.9	µg/L	97.86	ND	100	40-140				
Benzo(a)pyrene	104	4.9	µg/L	97.86	ND	106	40-140			R-06	
Benzo(b)fluoranthene	104	4.9	µg/L	97.86	ND	106	40-140				
Benzo(g,h,i)perylene	119	4.9	µg/L	97.86	ND	121	40-140				
Benzo(k)fluoranthene	105	4.9	µg/L	97.86	ND	108	40-140				
Bis(2-chloroethoxy)methane	87.8	9.8	µg/L	97.86	ND	89.7	40-140				
Bis(2-chloroethyl)ether	82.3	9.8	µg/L	97.86	ND	84.1	40-140				
2,2'-oxybis(1-Chloropropane)	81.3	9.8	µg/L	97.86	ND	83.1	40-140				
Bis(2-Ethylhexyl)phthalate	88.8	9.8	µg/L	97.86	ND	90.7	40-140				
4-Bromophenylphenylether	100	9.8	µg/L	97.86	ND	102	40-140				
Butylbenzylphthalate	98.3	9.8	µg/L	97.86	ND	100	40-140				
Carbazole	99.3	9.8	µg/L	97.86	ND	101	40-140				
4-Chloroaniline	72.9	9.8	µg/L	97.86	ND	74.5	40-140				
4-Chloro-3-methylphenol	85.3	9.8	µg/L	97.86	ND	87.2	30-130				
2-Chloronaphthalene	83.6	9.8	µg/L	97.86	ND	85.4	40-140				
2-Chlorophenol	77.2	9.8	µg/L	97.86	ND	78.8	30-130				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C											
Matrix Spike (B392794-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24							
4-Chlorophenylphenylether	96.2	9.8	µg/L	97.86	ND	98.3		40-140			
Chrysene	97.5	4.9	µg/L	97.86	ND	99.7		40-140			
Dibenz(a,h)anthracene	110	4.9	µg/L	97.86	ND	113		40-140			V-04
Dibenzofuran	98.3	4.9	µg/L	97.86	ND	100		40-140			
Di-n-butylphthalate	90.0	9.8	µg/L	97.86	ND	92.0		40-140			
3,3-Dichlorobenzidine	7.61	9.8	µg/L	97.86	ND	**7.78**	*	40-140			MS-09, J
2,4-Dichlorophenol	87.7	9.8	µg/L	97.86	ND	89.7		30-130			
Diethylphthalate	89.8	9.8	µg/L	97.86	ND	91.8		40-140			
2,4-Dimethylphenol	72.1	9.8	µg/L	97.86	ND	73.6		30-130			
Dimethylphthalate	95.7	9.8	µg/L	97.86	ND	97.8		40-140			
4,6-Dinitro-2-methylphenol	82.4	20	µg/L	97.86	ND	84.2		30-130			
2,4-Dinitrophenol	56.0	9.8	µg/L	97.86	ND	57.2		30-130			V-04
2,4-Dinitrotoluene	99.2	9.8	µg/L	97.86	ND	101		40-140			
2,6-Dinitrotoluene	103	9.8	µg/L	97.86	ND	106		40-140			
Di-n-octylphthalate	91.1	9.8	µg/L	97.86	ND	93.1		40-140			R-06, V-04
Fluoranthene	98.1	4.9	µg/L	97.86	ND	100		40-140			
Fluorene	99.2	4.9	µg/L	97.86	ND	101		40-140			
Hexachlorobenzene	106	9.8	µg/L	97.86	ND	108		40-140			
Hexachlorobutadiene	88.1	9.8	µg/L	97.86	ND	90.0		40-140			
Hexachlorocyclopentadiene	101	9.8	µg/L	97.86	ND	103		30-130			
Hexachloroethane	76.2	9.8	µg/L	97.86	ND	77.8		40-140			
Indeno(1,2,3-cd)pyrene	119	4.9	µg/L	97.86	ND	121		40-140			R-06, V-04
Isophorone	90.7	9.8	µg/L	97.86	ND	92.6		40-140			
1-Methylnaphthalene	81.2	4.9	µg/L	97.86	ND	83.0		40-140			
2-Methylnaphthalene	81.9	4.9	µg/L	97.86	ND	83.7		40-140			
2-Methylphenol	66.8	9.8	µg/L	97.86	ND	68.3		30-130			
3/4-Methylphenol	63.2	9.8	µg/L	97.86	ND	64.5		30-130			
Naphthalene	85.9	4.9	µg/L	97.86	ND	87.8		40-140			
2-Nitroaniline	42.0	9.8	µg/L	97.86	ND	42.9		40-140			
3-Nitroaniline	32.6	9.8	µg/L	97.86	ND	**33.3**	*	40-140			MS-09
4-Nitroaniline	11.0	9.8	µg/L	97.86	ND	**11.3**	*	40-140			MS-09
Nitrobenzene	103	9.8	µg/L	97.86	ND	105		40-140			
2-Nitrophenol	82.1	9.8	µg/L	97.86	ND	83.9		30-130			
4-Nitrophenol	41.5	9.8	µg/L	97.86	ND	42.4		30-130			
N-Nitrosodiphenylamine/Diphenylamine	97.1	9.8	µg/L	97.86	ND	99.2		40-140			
N-Nitrosodi-n-propylamine	72.6	9.8	µg/L	97.86	ND	74.1		40-140			
Pentachlorophenol	81.4	9.8	µg/L	97.86	ND	83.1		30-130			
Phenanthrene	99.2	4.9	µg/L	97.86	ND	101		40-140			
Phenol	37.1	9.8	µg/L	97.86	ND	37.9		30-130			
Pyrene	106	4.9	µg/L	97.86	ND	108		40-140			
Pyridine	19.5	20	µg/L	97.86	ND	**19.9**	*	40-140			R-06, V-34, J
1,2,4,5-Tetrachlorobenzene	97.8	9.8	µg/L	97.86	ND	99.9		40-140			
2,4,5-Trichlorophenol	93.6	9.8	µg/L	97.86	ND	95.7		30-130			
2,4,6-Trichlorophenol	95.0	9.8	µg/L	97.86	ND	97.1		30-130			
Surrogate: 2-Fluorophenol	*219*		µg/L	391.4		56.0		15-110			
Surrogate: Phenol-d6	*146*		µg/L	391.4		37.4		15-110			
Surrogate: Nitrobenzene-d5	*181*		µg/L	195.7		92.2		30-130			
Surrogate: 2-Fluorobiphenyl	*173*		µg/L	195.7		88.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*400*		µg/L	391.4		102		15-110			
Surrogate: p-Terphenyl-d14	*200*		µg/L	195.7		102		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B392794 - SW-846 3510C												
Matrix Spike Dup (B392794-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24								
2,3,4,6-Tetrachlorophenol	85.7	18	µg/L	89.17	ND	96.2		40-140	27.5		30	
Atrazine	90.0	18	µg/L	89.17	ND	101		40-140	26.4		30	
Benzaldehyde	75.1	8.9	µg/L	89.17	ND	84.3		40-140	14.5		30	
Biphenyl	76.0	18	µg/L	89.17	ND	85.2		40-140	20.0		30	
Caprolactam	25.8	8.9	µg/L	89.17	ND	**28.9**	*	40-140	6.17		30	MS-09, V-06
Acenaphthene	72.3	4.5	µg/L	89.17	ND	81.1		40-140	20.7		30	
Acenaphthylene	77.7	4.5	µg/L	89.17	ND	87.1		40-140	22.6		30	
Acetophenone	64.8	8.9	µg/L	89.17	ND	72.6		40-140	18.2		30	
Aniline	43.2	18	µg/L	89.17	ND	48.4		40-140	27.3		30	V-05
Anthracene	76.4	4.5	µg/L	89.17	ND	85.7		40-140	25.9		30	
Benzo(a)anthracene	74.3	4.5	µg/L	89.17	ND	83.3		40-140	27.7		30	
Benzo(a)pyrene	75.2	4.5	µg/L	89.17	ND	84.3		40-140	**32.1**	*	30	R-06
Benzo(b)fluoranthene	78.0	4.5	µg/L	89.17	ND	87.5		40-140	28.4		30	
Benzo(g,h,i)perylene	88.6	4.5	µg/L	89.17	ND	99.4		40-140	29.2		30	
Benzo(k)fluoranthene	79.1	4.5	µg/L	89.17	ND	88.7		40-140	28.6		30	
Bis(2-chloroethoxy)methane	71.4	8.9	µg/L	89.17	ND	80.1		40-140	20.6		30	
Bis(2-chloroethyl)ether	67.8	8.9	µg/L	89.17	ND	76.1		40-140	19.3		30	
2,2'-oxybis(1-Chloropropane)	69.4	8.9	µg/L	89.17	ND	77.8		40-140	15.8		30	
Bis(2-Ethylhexyl)phthalate	69.1	8.9	µg/L	89.17	ND	77.5		40-140	25.0		30	
4-Bromophenylphenylether	78.3	8.9	µg/L	89.17	ND	87.8		40-140	24.6		30	
Butylbenzylphthalate	76.7	8.9	µg/L	89.17	ND	86.0		40-140	24.7		30	
Carbazole	75.8	8.9	µg/L	89.17	ND	85.0		40-140	26.8		30	
4-Chloroaniline	57.6	8.9	µg/L	89.17	ND	64.6		40-140	23.4		30	
4-Chloro-3-methylphenol	67.0	8.9	µg/L	89.17	ND	75.2		30-130	24.0		30	
2-Chloronaphthalene	67.9	8.9	µg/L	89.17	ND	76.2		40-140	20.7		30	
2-Chlorophenol	63.0	8.9	µg/L	89.17	ND	70.6		30-130	20.2		30	
4-Chlorophenylphenylether	75.7	8.9	µg/L	89.17	ND	84.9		40-140	23.8		30	
Chrysene	75.1	4.5	µg/L	89.17	ND	84.2		40-140	26.0		30	
Dibenz(a,h)anthracene	83.7	4.5	µg/L	89.17	ND	93.9		40-140	27.4		30	V-04
Dibenzofuran	76.5	4.5	µg/L	89.17	ND	85.8		40-140	24.8		30	
Di-n-butylphthalate	69.5	8.9	µg/L	89.17	ND	78.0		40-140	25.7		30	
3,3-Dichlorobenzidine	7.19	8.9	µg/L	89.17	ND	**8.06**	*	40-140	5.76		30	MS-09, J
2,4-Dichlorophenol	71.9	8.9	µg/L	89.17	ND	80.6		30-130	19.9		30	
Diethylphthalate	70.3	8.9	µg/L	89.17	ND	78.9		40-140	24.3		30	
2,4-Dimethylphenol	55.0	8.9	µg/L	89.17	ND	61.6		30-130	26.9		30	
Dimethylphthalate	73.5	8.9	µg/L	89.17	ND	82.4		40-140	26.2		30	
4,6-Dinitro-2-methylphenol	72.4	18	µg/L	89.17	ND	81.2		30-130	12.9		30	
2,4-Dinitrophenol	57.5	8.9	µg/L	89.17	ND	64.4		30-130	2.58		30	V-04
2,4-Dinitrotoluene	74.2	8.9	µg/L	89.17	ND	83.2		40-140	28.9		30	
2,6-Dinitrotoluene	77.6	8.9	µg/L	89.17	ND	87.0		40-140	28.6		30	
Di-n-octylphthalate	66.9	8.9	µg/L	89.17	ND	75.0		40-140	**30.6**	*	30	R-06, V-04
Fluoranthene	77.0	4.5	µg/L	89.17	ND	86.4		40-140	24.1		30	
Fluorene	75.8	4.5	µg/L	89.17	ND	85.0		40-140	26.8		30	
Hexachlorobenzene	79.4	8.9	µg/L	89.17	ND	89.1		40-140	28.2		30	
Hexachlorobutadiene	72.1	8.9	µg/L	89.17	ND	80.9		40-140	19.9		30	
Hexachlorocyclopentadiene	80.9	8.9	µg/L	89.17	ND	90.8		30-130	22.2		30	
Hexachloroethane	60.8	8.9	µg/L	89.17	ND	68.2		40-140	22.5		30	
Indeno(1,2,3-cd)pyrene	86.1	4.5	µg/L	89.17	ND	96.6		40-140	**31.8**	*	30	R-06, V-04
Isophorone	73.1	8.9	µg/L	89.17	ND	82.0		40-140	21.5		30	
1-Methylnaphthalene	68.2	4.5	µg/L	89.17	ND	76.5		40-140	17.4		30	
2-Methylnaphthalene	66.3	4.5	µg/L	89.17	ND	74.3		40-140	21.1		30	
2-Methylphenol	55.8	8.9	µg/L	89.17	ND	62.6		30-130	17.9		30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B392794 - SW-846 3510C												
Matrix Spike Dup (B392794-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24								
3/4-Methylphenol	54.4	8.9	µg/L	89.17	ND	61.0		30-130	14.8		30	
Naphthalene	69.7	4.5	µg/L	89.17	ND	78.2		40-140	20.8		30	
2-Nitroaniline	36.0	8.9	µg/L	89.17	ND	40.4		40-140	15.2		30	
3-Nitroaniline	26.0	8.9	µg/L	89.17	ND	**29.1**	*	40-140	22.6		30	MS-09
4-Nitroaniline	8.52	8.9	µg/L	89.17	ND	**9.55**	*	40-140	25.7		30	MS-09, J
Nitrobenzene	82.3	8.9	µg/L	89.17	ND	92.3		40-140	21.9		30	
2-Nitrophenol	74.2	8.9	µg/L	89.17	ND	83.2		30-130	10.2		30	
4-Nitrophenol	40.5	8.9	µg/L	89.17	ND	45.4		30-130	2.31		30	
N-Nitrosodiphenylamine/Diphenylamine	74.7	8.9	µg/L	89.17	ND	83.8		40-140	26.0		30	
N-Nitrosodi-n-propylamine	60.5	8.9	µg/L	89.17	ND	67.9		40-140	18.1		30	
Pentachlorophenol	66.5	8.9	µg/L	89.17	ND	74.6		30-130	20.1		30	
Phenanthrene	76.6	4.5	µg/L	89.17	ND	86.0		40-140	25.7		30	
Phenol	32.4	8.9	µg/L	89.17	ND	36.3		30-130	13.7		30	
Pyrene	80.6	4.5	µg/L	89.17	ND	90.4		40-140	27.4		30	
Pyridine	11.5	18	µg/L	89.17	ND	**12.9**	*	40-140	**51.3**	*	30	MS-23, V-34, J
1,2,4,5-Tetrachlorobenzene	76.8	8.9	µg/L	89.17	ND	86.1		40-140	24.0		30	
2,4,5-Trichlorophenol	76.3	8.9	µg/L	89.17	ND	85.6		30-130	20.4		30	
2,4,6-Trichlorophenol	75.0	8.9	µg/L	89.17	ND	84.1		30-130	23.6		30	
Surrogate: 2-Fluorophenol	*192*		µg/L	356.7		53.9		15-110				
Surrogate: Phenol-d6	*128*		µg/L	356.7		35.8		15-110				
Surrogate: Nitrobenzene-d5	*156*		µg/L	178.3		87.4		30-130				
Surrogate: 2-Fluorobiphenyl	*143*		µg/L	178.3		80.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*311*		µg/L	356.7		87.3		15-110				
Surrogate: p-Terphenyl-d14	*157*		µg/L	178.3		88.1		30-130				

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392875 - SW-846 3510C										
Blank (B392875-BLK1)				Prepared: 11/21/24 Analyzed: 11/25/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.91*		µg/L	10.00		29.1	15-110			
LCS (B392875-BS1)				Prepared: 11/21/24 Analyzed: 11/25/24						
1,4-Dioxane	9.32	0.20	µg/L	10.00		93.2	40-140			
Surrogate: 1,4-Dioxane-d8	*3.52*		µg/L	10.00		35.2	15-110			
LCS Dup (B392875-BSD1)				Prepared: 11/21/24 Analyzed: 11/25/24						
1,4-Dioxane	9.98	0.20	µg/L	10.00		99.8	40-140	6.80	30	
Surrogate: 1,4-Dioxane-d8	*3.20*		µg/L	10.00		32.0	15-110			
Matrix Spike (B392875-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 12/05/24						
1,4-Dioxane	9.41	0.19	µg/L	9.434	0.122	98.5	30-140			
Surrogate: 1,4-Dioxane-d8	*2.82*		µg/L	9.434		29.9	15-110			
Matrix Spike Dup (B392875-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 12/05/24						
1,4-Dioxane	9.95	0.19	µg/L	9.434	0.122	104	30-140	5.56	30	
Surrogate: 1,4-Dioxane-d8	*2.74*		µg/L	9.434		29.1	15-110			
Batch B392892 - SW-846 3510C										
Blank (B392892-BLK1)				Prepared: 11/22/24 Analyzed: 11/25/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*3.01*		µg/L	10.00		30.1	15-110			
LCS (B392892-BS1)				Prepared: 11/22/24 Analyzed: 11/25/24						
1,4-Dioxane	10.5	0.20	µg/L	10.00		105	40-140			
Surrogate: 1,4-Dioxane-d8	*3.07*		µg/L	10.00		30.7	15-110			
LCS Dup (B392892-BSD1)				Prepared: 11/22/24 Analyzed: 11/25/24						
1,4-Dioxane	11.1	0.20	µg/L	10.00		111	40-140	5.22	30	
Surrogate: 1,4-Dioxane-d8	*2.90*		µg/L	10.00		29.0	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633										
Blank (B393749-BLK1)				Prepared: 12/05/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*77.2*		ng/L	79.21		97.5	5-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633										
Blank (B393749-BLK1)				Prepared: 12/05/24 Analyzed: 12/09/24						
Surrogate: 13C5-PFPeA	*38.5*		ng/L	39.60		97.3	40-130			
Surrogate: 13C5-PFHxA	*19.1*		ng/L	19.80		96.7	40-130			
Surrogate: 13C4-PFHpA	*19.4*		ng/L	19.80		97.9	40-130			
Surrogate: 13C8-PFOA	*18.5*		ng/L	19.80		93.7	40-130			
Surrogate: 13C9-PFNA	*9.65*		ng/L	9.901		97.4	40-130			
Surrogate: 13C6-PFDA	*9.70*		ng/L	9.901		98.0	40-130			
Surrogate: 13C7-PFUnA	*10.0*		ng/L	9.901		101	30-130			
Surrogate: 13C2-PFDoA	*10.3*		ng/L	9.901		104	10-130			
Surrogate: 13C2-PFTeDA	*10.1*		ng/L	9.901		102	10-130			
Surrogate: 13C3-PFBS	*20.8*		ng/L	19.80		105	40-135			
Surrogate: 13C3-PFHxS	*19.9*		ng/L	19.80		100	40-130			
Surrogate: 13C8-PFOS	*18.8*		ng/L	19.80		94.8	40-130			
Surrogate: 13C2-4:2FTS	*51.9*		ng/L	39.60		131	40-200			
Surrogate: 13C2-6:2FTS	*47.9*		ng/L	39.60		121	40-200			
Surrogate: 13C2-8:2FTS	*51.3*		ng/L	39.60		129	40-300			
Surrogate: 13C8-PFOSA	*17.1*		ng/L	19.80		86.1	40-130			
Surrogate: D3-NMeFOSA	*14.3*		ng/L	19.80		72.2	10-130			
Surrogate: D5-NEtFOSA	*13.8*		ng/L	19.80		69.8	10-130			
Surrogate: D3-NMeFOSAA	*44.7*		ng/L	39.60		113	40-170			
Surrogate: D5-NEtFOSAA	*49.6*		ng/L	39.60		125	25-135			
Surrogate: D7-NMeFOSE	*198*		ng/L	198.0		100	10-130			
Surrogate: D9-NEtFOSE	*218*		ng/L	198.0		110	10-130			
Surrogate: 13C3-HFPO-DA	*92.3*		ng/L	79.21		117	40-130			
LCS (B393749-BS1)				Prepared: 12/05/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	74.2	6.2	ng/L	78.10		95.1	70-140			
Perfluoropentanoic acid (PFPeA)	38.0	3.1	ng/L	39.05		97.4	65-135			
Perfluorohexanoic acid (PFHxA)	18.6	1.6	ng/L	19.53		95.2	70-145			
Perfluoroheptanoic acid (PFHpA)	17.8	1.6	ng/L	19.53		91.2	70-150			
Perfluorooctanoic acid (PFOA)	19.1	1.6	ng/L	19.53		97.8	70-150			
Perfluorononanoic acid (PFNA)	18.2	1.6	ng/L	19.53		93.2	70-150			
Perfluorodecanoic acid (PFDA)	18.8	1.6	ng/L	19.53		96.1	70-140			
Perfluoroundecanoic acid (PFUnA)	18.8	1.6	ng/L	19.53		96.5	70-145			
Perfluorododecanoic acid (PFDoA)	18.6	1.6	ng/L	19.53		95.1	70-140			
Perfluorotridecanoic acid (PFTrDA)	19.4	1.6	ng/L	19.53		99.6	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.1	1.6	ng/L	19.53		97.9	60-140			
Perfluorobutanesulfonic acid (PFBS)	16.7	1.6	ng/L	17.34		96.4	60-145			
Perfluoropentanesulfonic acid (PFPeS)	18.4	1.6	ng/L	18.35		100	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.2	1.6	ng/L	17.81		96.5	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	17.7	1.6	ng/L	18.59		95.4	70-150			
Perfluorooctanesulfonic acid (PFOS)	16.7	1.6	ng/L	18.12		92.3	55-150			
Perfluorononanesulfonic acid (PFNS)	18.4	1.6	ng/L	18.74		98.0	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.2	1.6	ng/L	18.82		91.4	60-145			
Perfluorododecanesulfonic acid (PFDoS)	17.7	1.6	ng/L	18.90		93.9	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	79.4	6.2	ng/L	73.18		109	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	75.0	6.2	ng/L	74.27		101	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	75.2	6.2	ng/L	74.98		100	60-150			
Perfluorooctanesulfonamide (PFOSA)	18.9	1.6	ng/L	19.53		96.9	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	17.1	1.6	ng/L	19.53		87.5	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633										
LCS (B393749-BS1)				Prepared: 12/05/24 Analyzed: 12/09/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	17.8	1.6	ng/L	19.53		91.1	65-145			
N-MeFOSAA (NMeFOSAA)	18.3	1.6	ng/L	19.53		93.7	50-140			
N-EtFOSAA (NEtFOSAA)	18.0	1.6	ng/L	19.53		92.2	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	185	16	ng/L	195.3		94.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	190	16	ng/L	195.3		97.6	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.2	6.2	ng/L	78.10		97.6	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	66.4	6.2	ng/L	73.81		89.9	65-145			
9Cl-PF3ONS (F53B Minor)	70.3	6.2	ng/L	72.87		96.5	70-155			
11Cl-PF3OUdS (F53B Major)	77.3	6.2	ng/L	72.95		106	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	83.8	7.8	ng/L	97.63		85.8	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	451	39	ng/L	488.1		92.5	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	438	39	ng/L	488.1		89.7	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	34.9	3.1	ng/L	34.83		100	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	35.4	3.1	ng/L	39.05		90.7	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	38.2	3.1	ng/L	39.05		97.9	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	45.5	3.1	ng/L	39.05		117	50-150			
Surrogate: 13C4-PFBA	*72.3*		ng/L	78.10		92.5	5-130			
Surrogate: 13C5-PFPeA	*35.2*		ng/L	39.05		90.1	40-130			
Surrogate: 13C5-PFHxA	*17.7*		ng/L	19.53		90.8	40-130			
Surrogate: 13C4-PFHpA	*18.1*		ng/L	19.53		92.9	40-130			
Surrogate: 13C8-PFOA	*17.2*		ng/L	19.53		87.9	40-130			
Surrogate: 13C9-PFNA	*9.00*		ng/L	9.763		92.2	40-130			
Surrogate: 13C6-PFDA	*9.49*		ng/L	9.763		97.2	40-130			
Surrogate: 13C7-PFUnA	*9.65*		ng/L	9.763		98.8	30-130			
Surrogate: 13C2-PFDoA	*9.56*		ng/L	9.763		97.9	10-130			
Surrogate: 13C2-PFTeDA	*9.93*		ng/L	9.763		102	10-130			
Surrogate: 13C3-PFBS	*18.8*		ng/L	19.53		96.3	40-135			
Surrogate: 13C3-PFHxS	*17.3*		ng/L	19.53		88.7	40-130			
Surrogate: 13C8-PFOS	*17.7*		ng/L	19.53		90.8	40-130			
Surrogate: 13C2-4:2FTS	*43.3*		ng/L	39.05		111	40-200			
Surrogate: 13C2-6:2FTS	*40.1*		ng/L	39.05		103	40-200			
Surrogate: 13C2-8:2FTS	*35.9*		ng/L	39.05		91.9	40-300			
Surrogate: 13C8-PFOSA	*16.0*		ng/L	19.53		82.1	40-130			
Surrogate: D3-NMeFOSA	*15.5*		ng/L	19.53		79.2	10-130			
Surrogate: D5-NEtFOSA	*16.1*		ng/L	19.53		82.4	10-130			
Surrogate: D3-NMeFOSAA	*40.4*		ng/L	39.05		104	40-170			
Surrogate: D5-NEtFOSAA	*42.3*		ng/L	39.05		108	25-135			
Surrogate: D7-NMeFOSE	*162*		ng/L	195.3		83.1	10-130			
Surrogate: D9-NEtFOSE	*200*		ng/L	195.3		102	10-130			
Surrogate: 13C3-HFPO-DA	*84.4*		ng/L	78.10		108	40-130			
MRL Check (B393749-MRL1)				Prepared: 12/05/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	6.01	6.3	ng/L	6.283		95.6	70-140			J
Perfluoropentanoic acid (PFPeA)	2.88	3.1	ng/L	3.142		91.7	65-135			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633										
MRL Check (B393749-MRL1)				Prepared: 12/05/24 Analyzed: 12/09/24						
Perfluorohexanoic acid (PFHxA)	1.36	1.6	ng/L	1.571		86.6	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.39	1.6	ng/L	1.571		88.5	70-150			J
Perfluorooctanoic acid (PFOA)	1.40	1.6	ng/L	1.571		89.0	70-150			J
Perfluorononanoic acid (PFNA)	1.40	1.6	ng/L	1.571		89.1	70-150			J
Perfluorodecanoic acid (PFDA)	1.39	1.6	ng/L	1.571		88.3	70-140			J
Perfluoroundecanoic acid (PFUnA)	1.40	1.6	ng/L	1.571		89.3	70-145			J
Perfluorododecanoic acid (PFDoA)	1.38	1.6	ng/L	1.571		87.8	70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.61	1.6	ng/L	1.571		102	65-140			
Perfluorotetradecanoic acid (PFTeDA)	1.36	1.6	ng/L	1.571		86.7	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.36	1.6	ng/L	1.395		97.8	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.46	1.6	ng/L	1.477		99.2	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.50	1.6	ng/L	1.433		105	65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.34	1.6	ng/L	1.495		89.9	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.32	1.6	ng/L	1.458		90.8	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.35	1.6	ng/L	1.508		89.2	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.27	1.6	ng/L	1.514		83.7	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.45	1.6	ng/L	1.521		95.1	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.18	6.3	ng/L	5.887		88.0	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.72	6.3	ng/L	5.975		95.7	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.24	6.3	ng/L	6.032		103	60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.60	1.6	ng/L	1.571		102	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.52	1.6	ng/L	1.571		97.0	60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.49	1.6	ng/L	1.571		94.7	65-145			J
N-MeFOSAA (NMeFOSAA)	1.10	1.6	ng/L	1.571		69.7	50-140			J
N-EtFOSAA (NEtFOSAA)	1.34	1.6	ng/L	1.571		85.1	70-145			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	14.2	16	ng/L	15.71		90.5	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	14.5	16	ng/L	15.71		92.3	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.36	6.3	ng/L	6.283		101	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.19	6.3	ng/L	5.938		87.4	65-145			J
9Cl-PF3ONS (F53B Minor)	5.69	6.3	ng/L	5.862		97.0	70-155			J
11Cl-PF3OUdS (F53B Major)	6.01	6.3	ng/L	5.925		101	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.75	7.9	ng/L	7.854		73.2	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	31.8	39	ng/L	39.27		80.9	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	30.9	39	ng/L	39.27		78.7	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.59	3.1	ng/L	2.802		92.3	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.05	3.1	ng/L	3.142		97.2	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.03	3.1	ng/L	3.142		96.3	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.13	3.1	ng/L	3.142		99.7	50-150			J
Surrogate: 13C4-PFBA	*72.3*		ng/L	78.54		92.1	5-130			
Surrogate: 13C5-PFPeA	*36.5*		ng/L	39.27		92.8	40-130			
Surrogate: 13C5-PFHxA	*18.8*		ng/L	19.63		95.8	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633											
MRL Check (B393749-MRL1)				Prepared: 12/05/24 Analyzed: 12/09/24							
Surrogate: 13C4-PFHpA	*19.1*		ng/L	19.63		97.1		40-130			
Surrogate: 13C8-PFOA	*17.4*		ng/L	19.63		88.5		40-130			
Surrogate: 13C9-PFNA	*9.26*		ng/L	9.817		94.3		40-130			
Surrogate: 13C6-PFDA	*9.25*		ng/L	9.817		94.2		40-130			
Surrogate: 13C7-PFUnA	*9.64*		ng/L	9.817		98.2		30-130			
Surrogate: 13C2-PFDoA	*9.43*		ng/L	9.817		96.0		10-130			
Surrogate: 13C2-PFTeDA	*10.7*		ng/L	9.817		109		10-130			
Surrogate: 13C3-PFBS	*18.0*		ng/L	19.63		91.9		40-135			
Surrogate: 13C3-PFHxS	*17.3*		ng/L	19.63		88.3		40-130			
Surrogate: 13C8-PFOS	*18.0*		ng/L	19.63		91.6		40-130			
Surrogate: 13C2-4:2FTS	*43.2*		ng/L	39.27		110		40-200			
Surrogate: 13C2-6:2FTS	*42.6*		ng/L	39.27		109		40-200			
Surrogate: 13C2-8:2FTS	*44.0*		ng/L	39.27		112		40-300			
Surrogate: 13C8-PFOSA	*16.4*		ng/L	19.63		83.6		40-130			
Surrogate: D3-NMeFOSA	*15.7*		ng/L	19.63		79.8		10-130			
Surrogate: D5-NEtFOSA	*16.5*		ng/L	19.63		84.1		10-130			
Surrogate: D3-NMeFOSAA	*45.8*		ng/L	39.27		117		40-170			
Surrogate: D5-NEtFOSAA	*47.5*		ng/L	39.27		121		25-135			
Surrogate: D7-NMeFOSE	*188*		ng/L	196.3		95.9		10-130			
Surrogate: D9-NEtFOSE	*226*		ng/L	196.3		115		10-130			
Surrogate: 13C3-HFPO-DA	*87.6*		ng/L	78.54		112		40-130			
Matrix Spike (B393749-MS1)	**Source: 24K1406-01**			Prepared: 12/05/24 Analyzed: 12/12/24							
Perfluorobutanoic acid (PFBA)	94.0	6.4	ng/L	80.00	ND	117		70-140			
Perfluoropentanoic acid (PFPeA)	51.4	3.2	ng/L	40.00	ND	128		65-135			
Perfluorohexanoic acid (PFHxA)	28.1	1.6	ng/L	20.00	0.745	137		70-145			
Perfluoroheptanoic acid (PFHpA)	30.4	1.6	ng/L	20.00	0.458	150		70-150			
Perfluorooctanoic acid (PFOA)	184	1.6	ng/L	20.00	1.62	**911**	*	70-150			MS-12
Perfluorononanoic acid (PFNA)	20.6	1.6	ng/L	20.00	ND	103		70-150			
Perfluorodecanoic acid (PFDA)	19.7	1.6	ng/L	20.00	ND	98.6		70-140			
Perfluoroundecanoic acid (PFUnA)	21.3	1.6	ng/L	20.00	ND	107		70-145			
Perfluorododecanoic acid (PFDoA)	18.4	1.6	ng/L	20.00	ND	92.2		70-140			
Perfluorotridecanoic acid (PFTrDA)	19.0	1.6	ng/L	20.00	ND	94.8		65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.0	1.6	ng/L	20.00	ND	100		60-140			
Perfluorobutanesulfonic acid (PFBS)	33.7	1.6	ng/L	17.76	0.533	**187**	*	60-145			MS-12
Perfluoropentanesulfonic acid (PFPeS)	21.3	1.6	ng/L	18.80	ND	113		65-140			
Perfluorohexanesulfonic acid (PFHxS)	22.2	1.6	ng/L	18.24	ND	122		65-145			
Perfluoroheptanesulfonic acid (PFHpS)	20.0	1.6	ng/L	19.04	ND	105		70-150			
Perfluorooctanesulfonic acid (PFOS)	21.9	1.6	ng/L	18.56	0.959	113		55-150			
Perfluorononanesulfonic acid (PFNS)	17.7	1.6	ng/L	19.20	ND	92.2		65-145			
Perfluorodecanesulfonic acid (PFDS)	16.3	1.6	ng/L	19.28	ND	84.8		60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.5	1.6	ng/L	19.36	ND	80.1		50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.9	6.4	ng/L	74.96	ND	108		70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	80.1	6.4	ng/L	76.08	ND	105		65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	87.0	6.4	ng/L	76.80	ND	113		60-150			
Perfluorooctanesulfonamide (PFOSA)	19.1	1.6	ng/L	20.00	ND	95.7		70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.8	1.6	ng/L	20.00	ND	99.2		60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.1	1.6	ng/L	20.00	ND	105		65-145			
N-MeFOSAA (NMeFOSAA)	19.5	1.6	ng/L	20.00	ND	97.6		50-140			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633											
Matrix Spike (B393749-MS1)	**Source: 24K1406-01**			Prepared: 12/05/24 Analyzed: 12/12/24							
N-EtFOSAA (NEtFOSAA)	18.7	1.6	ng/L	20.00	ND	93.3		70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	192	16	ng/L	200.0	ND	95.9		70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	188	16	ng/L	200.0	ND	94.2		70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.1	6.4	ng/L	80.00	ND	104		70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.3	6.4	ng/L	75.60	ND	101		65-145			
9Cl-PF3ONS (F53B Minor)	71.9	6.4	ng/L	74.64	ND	96.4		70-155			
11Cl-PF3OUdS (F53B Major)	69.1	6.4	ng/L	74.72	ND	92.5		55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	89.3	8.0	ng/L	100.0	ND	89.3		65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	475	40	ng/L	500.0	ND	94.9		70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	475	40	ng/L	500.0	ND	95.0		50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	38.0	3.2	ng/L	35.68	ND	106		70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	42.5	3.2	ng/L	40.00	ND	106		55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.6	3.2	ng/L	40.00	ND	104		60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.9	3.2	ng/L	40.00	ND	102		50-150			
Surrogate: 13C4-PFBA	*71.8*		ng/L	80.00		89.8		5-130			
Surrogate: 13C5-PFPeA	*33.3*		ng/L	40.00		83.4		40-130			
Surrogate: 13C5-PFHxA	*17.5*		ng/L	20.00		87.6		40-130			
Surrogate: 13C4-PFHpA	*16.9*		ng/L	20.00		84.6		40-130			
Surrogate: 13C8-PFOA	*17.9*		ng/L	20.00		89.6		40-130			
Surrogate: 13C9-PFNA	*8.41*		ng/L	10.00		84.1		40-130			
Surrogate: 13C6-PFDA	*8.48*		ng/L	10.00		84.8		40-130			
Surrogate: 13C7-PFUnA	*7.66*		ng/L	10.00		76.6		30-130			
Surrogate: 13C2-PFDoA	*7.72*		ng/L	10.00		77.2		10-130			
Surrogate: 13C2-PFTeDA	*7.04*		ng/L	10.00		70.4		10-130			
Surrogate: 13C3-PFBS	*17.7*		ng/L	20.00		88.5		40-135			
Surrogate: 13C3-PFHxS	*16.6*		ng/L	20.00		82.9		40-130			
Surrogate: 13C8-PFOS	*15.9*		ng/L	20.00		79.6		40-130			
Surrogate: 13C2-4:2FTS	*61.8*		ng/L	40.00		155		40-200			
Surrogate: 13C2-6:2FTS	*42.3*		ng/L	40.00		106		40-200			
Surrogate: 13C2-8:2FTS	*30.4*		ng/L	40.00		76.1		40-300			
Surrogate: 13C8-PFOSA	*15.2*		ng/L	20.00		76.2		40-130			
Surrogate: D3-NMeFOSA	*12.2*		ng/L	20.00		61.0		10-130			
Surrogate: D5-NEtFOSA	*11.0*		ng/L	20.00		55.2		10-130			
Surrogate: D3-NMeFOSAA	*35.4*		ng/L	40.00		88.5		40-170			
Surrogate: D5-NEtFOSAA	*38.1*		ng/L	40.00		95.3		25-135			
Surrogate: D7-NMeFOSE	*116*		ng/L	200.0		58.0		10-130			
Surrogate: D9-NEtFOSE	*118*		ng/L	200.0		59.2		10-130			
Surrogate: 13C3-HFPO-DA	*74.0*		ng/L	80.00		92.5		40-130			
Matrix Spike Dup (B393749-MSD1)	**Source: 24K1406-01**			Prepared: 12/05/24 Analyzed: 12/12/24							
Perfluorobutanoic acid (PFBA)	92.8	6.4	ng/L	80.00	ND	116		70-140	1.23	25	
Perfluoropentanoic acid (PFPeA)	49.5	3.2	ng/L	40.00	ND	124		65-135	3.69	25	
Perfluorohexanoic acid (PFHxA)	27.5	1.6	ng/L	20.00	0.745	134		70-145	1.90	25	
Perfluoroheptanoic acid (PFHpA)	30.1	1.6	ng/L	20.00	0.458	148		70-150	0.838	25	
Perfluorooctanoic acid (PFOA)	174	1.6	ng/L	20.00	1.62	**863**	*	70-150	5.31	25	MS-12

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633											
Matrix Spike Dup (B393749-MSD1)	**Source: 24K1406-01**			Prepared: 12/05/24 Analyzed: 12/12/24							
Perfluorononanoic acid (PFNA)	19.9	1.6	ng/L	20.00	ND	99.6		70-150	3.49	25	
Perfluorodecanoic acid (PFDA)	19.6	1.6	ng/L	20.00	ND	97.8		70-140	0.800	25	
Perfluoroundecanoic acid (PFUnA)	20.1	1.6	ng/L	20.00	ND	100		70-145	6.01	25	
Perfluorododecanoic acid (PFDoA)	19.5	1.6	ng/L	20.00	ND	97.7		70-140	5.78	25	
Perfluorotridecanoic acid (PFTrDA)	20.3	1.6	ng/L	20.00	ND	101		65-140	6.74	25	
Perfluorotetradecanoic acid (PFTeDA)	19.9	1.6	ng/L	20.00	ND	99.5		60-140	0.433	25	
Perfluorobutanesulfonic acid (PFBS)	34.1	1.6	ng/L	17.76	0.533	**189**	*	60-145	1.05	25	MS-12
Perfluoropentanesulfonic acid (PFPeS)	19.4	1.6	ng/L	18.80	ND	103		65-140	9.48	25	
Perfluorohexanesulfonic acid (PFHxS)	21.3	1.6	ng/L	18.24	ND	117		65-145	4.00	25	
Perfluoroheptanesulfonic acid (PFHpS)	19.6	1.6	ng/L	19.04	ND	103		70-150	1.76	25	
Perfluorooctanesulfonic acid (PFOS)	20.5	1.6	ng/L	18.56	0.959	105		55-150	6.80	25	
Perfluorononanesulfonic acid (PFNS)	16.5	1.6	ng/L	19.20	ND	86.0		65-145	6.90	25	
Perfluorodecanesulfonic acid (PFDS)	15.7	1.6	ng/L	19.28	ND	81.7		60-145	3.76	25	
Perfluorododecanesulfonic acid (PFDoS)	15.0	1.6	ng/L	19.36	ND	77.5		50-145	3.22	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.8	6.4	ng/L	74.96	ND	108		70-145	0.162	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.6	6.4	ng/L	76.08	ND	111		65-155	5.48	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	86.0	6.4	ng/L	76.80	ND	112		60-150	1.10	25	
Perfluorooctanesulfonamide (PFOSA)	18.6	1.6	ng/L	20.00	ND	93.0		70-145	2.87	25	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	21.1	1.6	ng/L	20.00	ND	105		60-150	6.13	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.7	1.6	ng/L	20.00	ND	109		65-145	3.05	25	
N-MeFOSAA (NMeFOSAA)	19.1	1.6	ng/L	20.00	ND	95.4		50-140	2.21	25	
N-EtFOSAA (NEtFOSAA)	17.6	1.6	ng/L	20.00	ND	88.2		70-145	5.61	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	194	16	ng/L	200.0	ND	97.2		70-145	1.26	25	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	196	16	ng/L	200.0	ND	97.8		70-135	3.72	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.0	6.4	ng/L	80.00	ND	97.5		70-140	6.31	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	73.9	6.4	ng/L	75.60	ND	97.8		65-145	3.21	25	
9Cl-PF3ONS (F53B Minor)	67.0	6.4	ng/L	74.64	ND	89.7		70-155	7.15	25	
11Cl-PF3OUdS (F53B Major)	65.8	6.4	ng/L	74.72	ND	88.1		55-160	4.87	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	84.0	8.0	ng/L	100.0	ND	84.0		65-130	6.13	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	456	40	ng/L	500.0	ND	91.3		70-135	3.96	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	470	40	ng/L	500.0	ND	94.0		50-145	1.09	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	36.4	3.2	ng/L	35.68	ND	102		70-140	4.19	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.8	3.2	ng/L	40.00	ND	99.5		55-140	6.46	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	3.2	ng/L	40.00	ND	100		60-150	3.86	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	38.5	3.2	ng/L	40.00	ND	96.4		50-150	6.00	25	
Surrogate: 13C4-PFBA	*71.4*		ng/L	80.00		89.2		5-130			
Surrogate: 13C5-PFPeA	*33.9*		ng/L	40.00		84.7		40-130			
Surrogate: 13C5-PFHxA	*18.0*		ng/L	20.00		90.2		40-130			
Surrogate: 13C4-PFHpA	*17.2*		ng/L	20.00		86.2		40-130			
Surrogate: 13C8-PFOA	*17.9*		ng/L	20.00		89.6		40-130			
Surrogate: 13C9-PFNA	*8.75*		ng/L	10.00		87.5		40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393749 - EPA 1633										
Matrix Spike Dup (B393749-MSD1)	**Source: 24K1406-01**			Prepared: 12/05/24 Analyzed: 12/12/24						
Surrogate: 13C6-PFDA	*8.98*		ng/L	10.00		89.8	40-130			
Surrogate: 13C7-PFUnA	*8.33*		ng/L	10.00		83.3	30-130			
Surrogate: 13C2-PFDoA	*7.80*		ng/L	10.00		78.0	10-130			
Surrogate: 13C2-PFTeDA	*7.60*		ng/L	10.00		76.0	10-130			
Surrogate: 13C3-PFBS	*17.8*		ng/L	20.00		89.0	40-135			
Surrogate: 13C3-PFHxS	*18.2*		ng/L	20.00		91.2	40-130			
Surrogate: 13C8-PFOS	*17.1*		ng/L	20.00		85.5	40-130			
Surrogate: 13C2-4:2FTS	*61.0*		ng/L	40.00		152	40-200			
Surrogate: 13C2-6:2FTS	*41.2*		ng/L	40.00		103	40-200			
Surrogate: 13C2-8:2FTS	*31.7*		ng/L	40.00		79.1	40-300			
Surrogate: 13C8-PFOSA	*15.8*		ng/L	20.00		78.9	40-130			
Surrogate: D3-NMeFOSA	*12.1*		ng/L	20.00		60.3	10-130			
Surrogate: D5-NEtFOSA	*11.9*		ng/L	20.00		59.7	10-130			
Surrogate: D3-NMeFOSAA	*34.6*		ng/L	40.00		86.4	40-170			
Surrogate: D5-NEtFOSAA	*38.3*		ng/L	40.00		95.6	25-135			
Surrogate: D7-NMeFOSE	*126*		ng/L	200.0		63.2	10-130			
Surrogate: D9-NEtFOSE	*127*		ng/L	200.0		63.6	10-130			
Surrogate: 13C3-HFPO-DA	*75.9*		ng/L	80.00		94.8	40-130			
Batch B394456 - EPA 1633										
Blank (B394456-BLK1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394456 - EPA 1633										
Blank (B394456-BLK1)				Prepared: 12/14/24 Analyzed: 12/16/24						
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*81.5*		ng/L	78.73		104	5-130			
Surrogate: 13C5-PFPeA	*41.3*		ng/L	39.37		105	40-130			
Surrogate: 13C5-PFHxA	*20.7*		ng/L	19.68		105	40-130			
Surrogate: 13C4-PFHpA	*21.6*		ng/L	19.68		109	40-130			
Surrogate: 13C8-PFOA	*18.8*		ng/L	19.68		95.5	40-130			
Surrogate: 13C9-PFNA	*10.4*		ng/L	9.842		106	40-130			
Surrogate: 13C6-PFDA	*10.1*		ng/L	9.842		103	40-130			
Surrogate: 13C7-PFUnA	*9.93*		ng/L	9.842		101	30-130			
Surrogate: 13C2-PFDoA	*9.39*		ng/L	9.842		95.4	10-130			
Surrogate: 13C2-PFTeDA	*9.42*		ng/L	9.842		95.7	10-130			
Surrogate: 13C3-PFBS	*20.6*		ng/L	19.68		105	40-135			
Surrogate: 13C3-PFHxS	*20.1*		ng/L	19.68		102	40-130			
Surrogate: 13C8-PFOS	*19.1*		ng/L	19.68		97.3	40-130			
Surrogate: 13C2-4:2FTS	*47.1*		ng/L	39.37		120	40-200			
Surrogate: 13C2-6:2FTS	*44.1*		ng/L	39.37		112	40-200			
Surrogate: 13C2-8:2FTS	*41.9*		ng/L	39.37		106	40-300			
Surrogate: 13C8-PFOSA	*20.0*		ng/L	19.68		102	40-130			
Surrogate: D3-NMeFOSA	*18.6*		ng/L	19.68		94.5	10-130			
Surrogate: D5-NEtFOSA	*19.3*		ng/L	19.68		98.0	10-130			
Surrogate: D3-NMeFOSAA	*41.0*		ng/L	39.37		104	40-170			
Surrogate: D5-NEtFOSAA	*36.2*		ng/L	39.37		91.9	25-135			
Surrogate: D7-NMeFOSE	*237*		ng/L	196.8		120	10-130			
Surrogate: D9-NEtFOSE	*245*		ng/L	196.8		125	10-130			
Surrogate: 13C3-HFPO-DA	*90.7*		ng/L	78.73		115	40-130			
LCS (B394456-BS1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Perfluorobutanoic acid (PFBA)	69.7	6.4	ng/L	79.48		87.7	70-140			
Perfluoropentanoic acid (PFPeA)	36.3	3.2	ng/L	39.74		91.4	65-135			
Perfluorohexanoic acid (PFHxA)	18.7	1.6	ng/L	19.87		94.3	70-145			
Perfluoroheptanoic acid (PFHpA)	18.4	1.6	ng/L	19.87		92.7	70-150			
Perfluorooctanoic acid (PFOA)	18.8	1.6	ng/L	19.87		94.6	70-150			
Perfluorononanoic acid (PFNA)	17.5	1.6	ng/L	19.87		88.3	70-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394456 - EPA 1633										
LCS (B394456-BS1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Perfluorodecanoic acid (PFDA)	18.2	1.6	ng/L	19.87		91.8	70-140			
Perfluoroundecanoic acid (PFUnA)	18.8	1.6	ng/L	19.87		94.5	70-145			
Perfluorododecanoic acid (PFDoA)	17.8	1.6	ng/L	19.87		89.6	70-140			
Perfluorotridecanoic acid (PFTrDA)	18.0	1.6	ng/L	19.87		90.4	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.5	1.6	ng/L	19.87		98.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	16.9	1.6	ng/L	17.64		95.6	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.7	1.6	ng/L	18.68		94.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.1	1.6	ng/L	18.12		94.6	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	17.8	1.6	ng/L	18.92		94.3	70-150			
Perfluorooctanesulfonic acid (PFOS)	16.8	1.6	ng/L	18.44		91.3	55-150			
Perfluorononanesulfonic acid (PFNS)	17.8	1.6	ng/L	19.08		93.5	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.5	1.6	ng/L	19.15		91.5	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.4	1.6	ng/L	19.23		85.3	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	70.6	6.4	ng/L	74.47		94.9	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	71.3	6.4	ng/L	75.59		94.3	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	74.4	6.4	ng/L	76.30		97.5	60-150			
Perfluorooctanesulfonamide (PFOSA)	18.8	1.6	ng/L	19.87		94.4	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	18.3	1.6	ng/L	19.87		92.0	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.4	1.6	ng/L	19.87		92.7	65-145			
N-MeFOSAA (NMeFOSAA)	18.3	1.6	ng/L	19.87		92.3	50-140			
N-EtFOSAA (NEtFOSAA)	21.5	1.6	ng/L	19.87		108	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	196	16	ng/L	198.7		98.5	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	198	16	ng/L	198.7		99.9	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.1	6.4	ng/L	79.48		95.7	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	65.0	6.4	ng/L	75.11		86.5	65-145			
9Cl-PF3ONS (F53B Minor)	71.3	6.4	ng/L	74.16		96.2	70-155			
11Cl-PF3OUdS (F53B Major)	70.2	6.4	ng/L	74.23		94.5	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	89.0	7.9	ng/L	99.35		89.6	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	448	40	ng/L	496.8		90.3	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	424	40	ng/L	496.8		85.3	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	33.1	3.2	ng/L	35.45		93.4	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	35.3	3.2	ng/L	39.74		88.8	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	37.2	3.2	ng/L	39.74		93.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	41.9	3.2	ng/L	39.74		105	50-150			
Surrogate: 13C4-PFBA	*68.0*		ng/L	79.48		85.5	5-130			
Surrogate: 13C5-PFPeA	*33.9*		ng/L	39.74		85.3	40-130			
Surrogate: 13C5-PFHxA	*16.4*		ng/L	19.87		82.4	40-130			
Surrogate: 13C4-PFHpA	*17.4*		ng/L	19.87		87.8	40-130			
Surrogate: 13C8-PFOA	*16.0*		ng/L	19.87		80.4	40-130			
Surrogate: 13C9-PFNA	*8.46*		ng/L	9.935		85.2	40-130			
Surrogate: 13C6-PFDA	*9.25*		ng/L	9.935		93.1	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394456 - EPA 1633										
LCS (B394456-BS1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Surrogate: 13C7-PFUnA	*8.41*		ng/L	9.935		84.7	30-130			
Surrogate: 13C2-PFDoA	*7.82*		ng/L	9.935		78.7	10-130			
Surrogate: 13C2-PFTeDA	*7.08*		ng/L	9.935		71.3	10-130			
Surrogate: 13C3-PFBS	*17.3*		ng/L	19.87		86.9	40-135			
Surrogate: 13C3-PFHxS	*16.4*		ng/L	19.87		82.3	40-130			
Surrogate: 13C8-PFOS	*16.9*		ng/L	19.87		85.1	40-130			
Surrogate: 13C2-4:2FTS	*35.8*		ng/L	39.74		90.1	40-200			
Surrogate: 13C2-6:2FTS	*34.7*		ng/L	39.74		87.2	40-200			
Surrogate: 13C2-8:2FTS	*31.0*		ng/L	39.74		78.1	40-300			
Surrogate: 13C8-PFOSA	*15.4*		ng/L	19.87		77.3	40-130			
Surrogate: D3-NMeFOSA	*12.6*		ng/L	19.87		63.6	10-130			
Surrogate: D5-NEtFOSA	*12.5*		ng/L	19.87		63.1	10-130			
Surrogate: D3-NMeFOSAA	*33.4*		ng/L	39.74		84.1	40-170			
Surrogate: D5-NEtFOSAA	*30.0*		ng/L	39.74		75.6	25-135			
Surrogate: D7-NMeFOSE	*155*		ng/L	198.7		77.9	10-130			
Surrogate: D9-NEtFOSE	*153*		ng/L	198.7		77.0	10-130			
Surrogate: 13C3-HFPO-DA	*72.0*		ng/L	79.48		90.6	40-130			
MRL Check (B394456-MRL1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Perfluorobutanoic acid (PFBA)	10.1	6.3	ng/L	12.65		80.1	70-140			
Perfluoropentanoic acid (PFPeA)	5.11	3.2	ng/L	6.325		80.9	65-135			
Perfluorohexanoic acid (PFHxA)	2.62	1.6	ng/L	3.163		82.8	70-145			
Perfluoroheptanoic acid (PFHpA)	2.71	1.6	ng/L	3.163		85.8	70-150			
Perfluorooctanoic acid (PFOA)	2.61	1.6	ng/L	3.163		82.5	70-150			
Perfluorononanoic acid (PFNA)	2.30	1.6	ng/L	3.163		72.7	70-150			
Perfluorodecanoic acid (PFDA)	2.58	1.6	ng/L	3.163		81.6	70-140			
Perfluoroundecanoic acid (PFUnA)	2.55	1.6	ng/L	3.163		80.7	70-145			
Perfluorododecanoic acid (PFDoA)	2.80	1.6	ng/L	3.163		88.5	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.69	1.6	ng/L	3.163		85.1	65-140			
Perfluorotetradecanoic acid (PFTeDA)	2.69	1.6	ng/L	3.163		85.0	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.47	1.6	ng/L	2.808		88.1	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.67	1.6	ng/L	2.973		90.0	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.63	1.6	ng/L	2.884		91.0	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.69	1.6	ng/L	3.011		89.4	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.54	1.6	ng/L	2.935		86.5	55-150			
Perfluorononanesulfonic acid (PFNS)	2.47	1.6	ng/L	3.036		81.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.50	1.6	ng/L	3.049		81.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.54	1.6	ng/L	3.061		82.9	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	9.31	6.3	ng/L	11.85		78.6	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	10.2	6.3	ng/L	12.03		84.5	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	10.7	6.3	ng/L	12.14		88.4	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.04	1.6	ng/L	3.163		96.1	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.87	1.6	ng/L	3.163		90.7	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.64	1.6	ng/L	3.163		83.4	65-145			
N-MeFOSAA (NMeFOSAA)	2.46	1.6	ng/L	3.163		77.8	50-140			
N-EtFOSAA (NEtFOSAA)	2.81	1.6	ng/L	3.163		88.7	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	28.9	16	ng/L	31.63		91.3	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	29.0	16	ng/L	31.63		91.8	70-135			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394456 - EPA 1633										
MRL Check (B394456-MRL1)				Prepared: 12/14/24 Analyzed: 12/16/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.3	6.3	ng/L	12.65		81.1	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.60	6.3	ng/L	11.95		80.3	65-145			
9Cl-PF3ONS (F53B Minor)	10.7	6.3	ng/L	11.80		90.7	70-155			
11Cl-PF3OUdS (F53B Major)	9.95	6.3	ng/L	11.82		84.2	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.4	7.9	ng/L	15.81		84.4	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	67.8	40	ng/L	79.06		85.7	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	67.3	40	ng/L	79.06		85.2	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.90	3.2	ng/L	5.642		86.9	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.15	3.2	ng/L	6.325		81.4	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.27	3.2	ng/L	6.325		83.2	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.64	3.2	ng/L	6.325		89.1	50-150			
Surrogate: 13C4-PFBA	*72.7*		ng/L	79.06		91.9	5-130			
Surrogate: 13C5-PFPeA	*37.1*		ng/L	39.53		93.9	40-130			
Surrogate: 13C5-PFHxA	*17.7*		ng/L	19.77		89.8	40-130			
Surrogate: 13C4-PFHpA	*19.4*		ng/L	19.77		98.1	40-130			
Surrogate: 13C8-PFOA	*16.5*		ng/L	19.77		83.6	40-130			
Surrogate: 13C9-PFNA	*8.83*		ng/L	9.883		89.4	40-130			
Surrogate: 13C6-PFDA	*9.11*		ng/L	9.883		92.1	40-130			
Surrogate: 13C7-PFUnA	*8.46*		ng/L	9.883		85.6	30-130			
Surrogate: 13C2-PFDoA	*7.02*		ng/L	9.883		71.1	10-130			
Surrogate: 13C2-PFTeDA	*7.04*		ng/L	9.883		71.3	10-130			
Surrogate: 13C3-PFBS	*19.1*		ng/L	19.77		96.8	40-135			
Surrogate: 13C3-PFHxS	*17.6*		ng/L	19.77		89.0	40-130			
Surrogate: 13C8-PFOS	*17.4*		ng/L	19.77		87.9	40-130			
Surrogate: 13C2-4:2FTS	*39.4*		ng/L	39.53		99.7	40-200			
Surrogate: 13C2-6:2FTS	*40.0*		ng/L	39.53		101	40-200			
Surrogate: 13C2-8:2FTS	*35.5*		ng/L	39.53		89.8	40-300			
Surrogate: 13C8-PFOSA	*16.9*		ng/L	19.77		85.7	40-130			
Surrogate: D3-NMeFOSA	*15.5*		ng/L	19.77		78.6	10-130			
Surrogate: D5-NEtFOSA	*16.3*		ng/L	19.77		82.7	10-130			
Surrogate: D3-NMeFOSAA	*37.8*		ng/L	39.53		95.6	40-170			
Surrogate: D5-NEtFOSAA	*32.3*		ng/L	39.53		81.7	25-135			
Surrogate: D7-NMeFOSE	*181*		ng/L	197.7		91.7	10-130			
Surrogate: D9-NEtFOSE	*188*		ng/L	197.7		95.2	10-130			
Surrogate: 13C3-HFPO-DA	*79.5*		ng/L	79.06		101	40-130			

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C										
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
Blank (B392781-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*2.94*		µg/L	4.000		73.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.90*		µg/L	4.000		72.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.61*		µg/L	4.000		65.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.77*		µg/L	4.000		69.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
LCS (B392781-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	1.5	0.050	µg/L	2.000		77.2	0-200			
alpha-Chlordane [2C]	1.6	0.050	µg/L	2.000		81.5	0-200			
gamma-Chlordane	1.5	0.050	µg/L	2.000		76.1	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		82.7	0-200			
Aldrin	1.3	0.050	µg/L	2.000		67.3	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.000		73.8	40-140			
alpha-BHC	1.7	0.050	µg/L	2.000		82.6	40-140			
alpha-BHC [2C]	1.8	0.050	µg/L	2.000		89.5	40-140			
beta-BHC	1.6	0.050	µg/L	2.000		82.3	40-140			
beta-BHC [2C]	1.8	0.050	µg/L	2.000		88.9	40-140			
delta-BHC	1.5	0.050	µg/L	2.000		72.8	40-140			
delta-BHC [2C]	1.5	0.050	µg/L	2.000		76.6	40-140			
gamma-BHC (Lindane)	1.6	0.030	µg/L	2.000		78.0	40-140			
gamma-BHC (Lindane) [2C]	1.7	0.030	µg/L	2.000		85.5	40-140			
4,4'-DDD	1.6	0.040	µg/L	2.000		80.8	40-140			
4,4'-DDD [2C]	1.7	0.040	µg/L	2.000		84.1	40-140			
4,4'-DDE	1.6	0.040	µg/L	2.000		79.3	40-140			
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		85.4	40-140			
4,4'-DDT	1.5	0.040	µg/L	2.000		76.1	40-140			
4,4'-DDT [2C]	1.6	0.040	µg/L	2.000		81.6	40-140			
Dieldrin	1.6	0.0020	µg/L	2.000		78.3	40-140			
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		85.1	40-140			
Endosulfan I	1.5	0.050	µg/L	2.000		76.7	40-140			
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		83.3	40-140			
Endosulfan II	1.6	0.080	µg/L	2.000		78.9	40-140			
Endosulfan II [2C]	1.7	0.080	µg/L	2.000		83.9	40-140			
Endosulfan Sulfate	1.5	0.080	µg/L	2.000		74.9	40-140			
Endosulfan Sulfate [2C]	1.6	0.080	µg/L	2.000		79.2	40-140			
Endrin	1.6	0.080	µg/L	2.000		82.1	40-140			
Endrin [2C]	1.7	0.080	µg/L	2.000		87.1	40-140			
Endrin Aldehyde	1.4	0.080	µg/L	2.000		69.1	40-140			
Endrin Aldehyde [2C]	1.5	0.080	µg/L	2.000		72.7	40-140			
Endrin Ketone	1.5	0.080	µg/L	2.000		74.9	40-140			
Endrin Ketone [2C]	1.5	0.080	µg/L	2.000		77.1	40-140			
Heptachlor	1.5	0.050	µg/L	2.000		72.7	40-140			
Heptachlor [2C]	1.6	0.050	µg/L	2.000		78.2	40-140			
Heptachlor Epoxide	1.5	0.050	µg/L	2.000		77.3	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		83.2	40-140			
Methoxychlor	1.5	0.50	µg/L	2.000		75.2	40-140			
Methoxychlor [2C]	1.4	0.50	µg/L	2.000		71.1	40-140			
Surrogate: Decachlorobiphenyl	*3.07*		µg/L	4.000		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.00*		µg/L	4.000		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.61*		µg/L	4.000		65.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.74*		µg/L	4.000		68.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
LCS Dup (B392781-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	1.8	0.050	µg/L	2.000		89.8	0-200	15.0		
alpha-Chlordane [2C]	1.9	0.050	µg/L	2.000		94.7	0-200	14.9		
gamma-Chlordane	1.8	0.050	µg/L	2.000		88.7	0-200	15.3		
gamma-Chlordane [2C]	1.9	0.050	µg/L	2.000		96.3	0-200	15.2		
Aldrin	1.6	0.050	µg/L	2.000		81.4	40-140	19.0	20	
Aldrin [2C]	1.8	0.050	µg/L	2.000		88.8	40-140	18.4	20	
alpha-BHC	1.9	0.050	µg/L	2.000		94.0	40-140	13.0	20	
alpha-BHC [2C]	2.0	0.050	µg/L	2.000		101	40-140	11.9	20	
beta-BHC	1.9	0.050	µg/L	2.000		94.4	40-140	13.7	20	
beta-BHC [2C]	2.0	0.050	µg/L	2.000		102	40-140	14.1	20	
delta-BHC	1.7	0.050	µg/L	2.000		85.0	40-140	15.6	20	
delta-BHC [2C]	1.8	0.050	µg/L	2.000		89.6	40-140	15.7	20	
gamma-BHC (Lindane)	1.8	0.030	µg/L	2.000		89.3	40-140	13.5	20	
gamma-BHC (Lindane) [2C]	1.9	0.030	µg/L	2.000		96.9	40-140	12.5	20	
4,4'-DDD	1.9	0.040	µg/L	2.000		94.1	40-140	15.2	20	
4,4'-DDD [2C]	2.0	0.040	µg/L	2.000		97.9	40-140	15.2	20	
4,4'-DDE	1.9	0.040	µg/L	2.000		92.8	40-140	15.7	20	
4,4'-DDE [2C]	2.0	0.040	µg/L	2.000		99.5	40-140	15.2	20	
4,4'-DDT	1.8	0.040	µg/L	2.000		89.7	40-140	16.4	20	
4,4'-DDT [2C]	1.9	0.040	µg/L	2.000		96.2	40-140	16.4	20	
Dieldrin	1.8	0.0020	µg/L	2.000		90.8	40-140	14.8	20	
Dieldrin [2C]	2.0	0.0020	µg/L	2.000		98.5	40-140	14.6	20	
Endosulfan I	1.8	0.050	µg/L	2.000		88.5	40-140	14.3	20	
Endosulfan I [2C]	1.9	0.050	µg/L	2.000		96.2	40-140	14.3	20	
Endosulfan II	1.8	0.080	µg/L	2.000		92.2	40-140	15.5	20	
Endosulfan II [2C]	2.0	0.080	µg/L	2.000		99.0	40-140	16.5	20	
Endosulfan Sulfate	1.8	0.080	µg/L	2.000		88.5	40-140	16.6	20	
Endosulfan Sulfate [2C]	1.9	0.080	µg/L	2.000		93.6	40-140	16.7	20	
Endrin	1.9	0.080	µg/L	2.000		95.5	40-140	15.0	20	
Endrin [2C]	2.0	0.080	µg/L	2.000		101	40-140	14.8	20	
Endrin Aldehyde	1.6	0.080	µg/L	2.000		81.9	40-140	17.0	20	
Endrin Aldehyde [2C]	1.7	0.080	µg/L	2.000		86.4	40-140	17.1	20	
Endrin Ketone	1.8	0.080	µg/L	2.000		88.1	40-140	16.2	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.000		90.7	40-140	16.3	20	
Heptachlor	1.7	0.050	µg/L	2.000		87.0	40-140	18.0	20	
Heptachlor [2C]	1.9	0.050	µg/L	2.000		92.8	40-140	17.1	20	
Heptachlor Epoxide	1.8	0.050	µg/L	2.000		89.3	40-140	14.4	20	
Heptachlor Epoxide [2C]	1.9	0.050	µg/L	2.000		95.8	40-140	14.0	20	
Methoxychlor	1.8	0.50	µg/L	2.000		88.9	40-140	16.7	20	
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		84.2	40-140	16.8	20	
Surrogate: Decachlorobiphenyl	*3.40*		µg/L	4.000		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	4.000		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.98*		µg/L	4.000		74.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.13*		µg/L	4.000		78.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
Matrix Spike (B392781-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24						
Aldrin	1.5	0.045	µg/L	1.818	ND	81.5	30-150			
Aldrin [2C]	1.6	0.045	µg/L	1.818	ND	87.9	30-150			
alpha-BHC	1.8	0.045	µg/L	1.818	ND	99.6	30-150			
alpha-BHC [2C]	1.9	0.045	µg/L	1.818	ND	105	30-150			
beta-BHC	1.8	0.045	µg/L	1.818	ND	98.0	30-150			
beta-BHC [2C]	1.9	0.045	µg/L	1.818	ND	105	30-150			
delta-BHC	1.6	0.045	µg/L	1.818	ND	89.4	30-150			
delta-BHC [2C]	1.7	0.045	µg/L	1.818	ND	93.2	30-150			
gamma-BHC (Lindane)	1.7	0.027	µg/L	1.818	ND	95.5	30-150			
gamma-BHC (Lindane) [2C]	1.9	0.027	µg/L	1.818	ND	102	30-150			
4,4'-DDD	1.9	0.036	µg/L	1.818	ND	102	30-150			
4,4'-DDD [2C]	1.9	0.036	µg/L	1.818	ND	105	30-150			
4,4'-DDE	1.7	0.036	µg/L	1.818	ND	95.6	30-150			
4,4'-DDE [2C]	1.8	0.036	µg/L	1.818	ND	101	30-150			
4,4'-DDT	1.7	0.036	µg/L	1.818	ND	90.8	30-150			
4,4'-DDT [2C]	1.8	0.036	µg/L	1.818	ND	97.4	30-150			
Dieldrin	1.7	0.0018	µg/L	1.818	ND	95.5	30-150			
Dieldrin [2C]	1.9	0.0018	µg/L	1.818	ND	102	30-150			
Endosulfan I	1.7	0.045	µg/L	1.818	ND	92.8	30-150			
Endosulfan I [2C]	1.8	0.045	µg/L	1.818	ND	100	30-150			
Endosulfan II	1.8	0.073	µg/L	1.818	ND	96.9	30-150			
Endosulfan II [2C]	1.8	0.073	µg/L	1.818	ND	102	30-150			
Endosulfan Sulfate	1.7	0.073	µg/L	1.818	ND	93.5	30-150			
Endosulfan Sulfate [2C]	1.8	0.073	µg/L	1.818	ND	98.3	30-150			
Endrin	1.8	0.073	µg/L	1.818	ND	99.3	30-150			
Endrin [2C]	1.9	0.073	µg/L	1.818	ND	104	30-150			
Endrin Aldehyde	1.6	0.073	µg/L	1.818	ND	85.3	30-150			
Endrin Aldehyde [2C]	1.6	0.073	µg/L	1.818	ND	89.0	30-150			
Endrin Ketone	1.7	0.073	µg/L	1.818	ND	94.9	30-150			
Endrin Ketone [2C]	1.8	0.073	µg/L	1.818	ND	97.5	30-150			
Heptachlor	1.6	0.045	µg/L	1.818	ND	88.3	30-150			
Heptachlor [2C]	1.7	0.045	µg/L	1.818	ND	93.9	30-150			
Heptachlor Epoxide	1.7	0.045	µg/L	1.818	ND	93.7	30-150			
Heptachlor Epoxide [2C]	1.8	0.045	µg/L	1.818	ND	99.6	30-150			
Methoxychlor	1.7	0.45	µg/L	1.818	ND	94.5	30-150			
Methoxychlor [2C]	1.7	0.45	µg/L	1.818	ND	91.0	30-150			
Surrogate: Decachlorobiphenyl	*3.73*		µg/L	3.635		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.72*		µg/L	3.635		102	30-150			
Surrogate: Tetrachloro-m-xylene	*2.85*		µg/L	3.635		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.96*		µg/L	3.635		81.5	30-150			
Matrix Spike Dup (B392781-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24						
Aldrin	1.4	0.046	µg/L	1.850	ND	76.8	30-150	4.12	20	
Aldrin [2C]	1.5	0.046	µg/L	1.850	ND	83.1	30-150	3.89	20	
alpha-BHC	1.7	0.046	µg/L	1.850	ND	90.1	30-150	8.29	20	
alpha-BHC [2C]	1.8	0.046	µg/L	1.850	ND	95.9	30-150	7.68	20	
beta-BHC	1.6	0.046	µg/L	1.850	ND	85.2	30-150	12.2	20	
beta-BHC [2C]	1.7	0.046	µg/L	1.850	ND	92.6	30-150	10.4	20	
delta-BHC	1.4	0.046	µg/L	1.850	ND	76.9	30-150	13.3	20	
delta-BHC [2C]	1.5	0.046	µg/L	1.850	ND	79.5	30-150	14.1	20	
gamma-BHC (Lindane)	1.6	0.028	µg/L	1.850	ND	85.4	30-150	9.38	20	
gamma-BHC (Lindane) [2C]	1.7	0.028	µg/L	1.850	ND	91.5	30-150	9.48	20	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
Matrix Spike Dup (B392781-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24						
4,4'-DDD	1.7	0.037	µg/L	1.850	ND	89.2	30-150	11.8	20	
4,4'-DDD [2C]	1.7	0.037	µg/L	1.850	ND	92.0	30-150	11.4	20	
4,4'-DDE	1.6	0.037	µg/L	1.850	ND	87.3	30-150	7.38	20	
4,4'-DDE [2C]	1.7	0.037	µg/L	1.850	ND	91.3	30-150	8.56	20	
4,4'-DDT	1.5	0.037	µg/L	1.850	ND	81.9	30-150	8.66	20	
4,4'-DDT [2C]	1.6	0.037	µg/L	1.850	ND	88.7	30-150	7.54	20	
Dieldrin	1.6	0.0018	µg/L	1.850	ND	85.5	30-150	9.31	20	
Dieldrin [2C]	1.7	0.0018	µg/L	1.850	ND	92.1	30-150	8.85	20	
Endosulfan I	1.5	0.046	µg/L	1.850	ND	83.4	30-150	8.88	20	
Endosulfan I [2C]	1.7	0.046	µg/L	1.850	ND	90.0	30-150	8.78	20	
Endosulfan II	1.6	0.074	µg/L	1.850	ND	86.3	30-150	9.91	20	
Endosulfan II [2C]	1.7	0.074	µg/L	1.850	ND	90.4	30-150	9.82	20	
Endosulfan Sulfate	1.5	0.074	µg/L	1.850	ND	82.7	30-150	10.5	20	
Endosulfan Sulfate [2C]	1.6	0.074	µg/L	1.850	ND	87.0	30-150	10.4	20	
Endrin	1.6	0.074	µg/L	1.850	ND	89.0	30-150	9.10	20	
Endrin [2C]	1.7	0.074	µg/L	1.850	ND	93.9	30-150	8.86	20	
Endrin Aldehyde	1.4	0.074	µg/L	1.850	ND	75.3	30-150	10.8	20	
Endrin Aldehyde [2C]	1.5	0.074	µg/L	1.850	ND	79.0	30-150	10.2	20	
Endrin Ketone	1.6	0.074	µg/L	1.850	ND	84.1	30-150	10.3	20	
Endrin Ketone [2C]	1.6	0.074	µg/L	1.850	ND	86.8	30-150	9.94	20	
Heptachlor	1.5	0.046	µg/L	1.850	ND	82.2	30-150	5.44	20	
Heptachlor [2C]	1.6	0.046	µg/L	1.850	ND	87.6	30-150	5.14	20	
Heptachlor Epoxide	1.6	0.046	µg/L	1.850	ND	84.1	30-150	9.07	20	
Heptachlor Epoxide [2C]	1.7	0.046	µg/L	1.850	ND	89.5	30-150	8.96	20	
Methoxychlor	1.6	0.46	µg/L	1.850	ND	84.9	30-150	8.90	20	
Methoxychlor [2C]	1.5	0.46	µg/L	1.850	ND	82.2	30-150	8.45	20	
Surrogate: Decachlorobiphenyl	*3.35*		µg/L	3.699		90.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	3.699		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.70*		µg/L	3.699		73.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.82*		µg/L	3.699		76.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392782 - SW-846 3510C										
Blank (B392782-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.43*		µg/L	4.000		60.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.77*		µg/L	4.000		69.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.42*		µg/L	4.000		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.16*		µg/L	4.000		54.1	30-150			
LCS (B392782-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.88	0.20	µg/L	1.000		88.3	40-140			
Aroclor-1016 [2C]	0.96	0.20	µg/L	1.000		96.2	40-140			
Aroclor-1260	0.89	0.20	µg/L	1.000		89.1	40-140			
Aroclor-1260 [2C]	1.0	0.20	µg/L	1.000		105	40-140			
Surrogate: Decachlorobiphenyl	*2.31*		µg/L	4.000		57.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.61*		µg/L	4.000		65.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.00*		µg/L	4.000		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.99*		µg/L	4.000		74.6	30-150			
LCS Dup (B392782-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.78	0.20	µg/L	1.000		78.5	40-140	11.7	20	
Aroclor-1016 [2C]	0.87	0.20	µg/L	1.000		87.3	40-140	9.69	20	
Aroclor-1260	0.81	0.20	µg/L	1.000		81.0	40-140	9.48	20	
Aroclor-1260 [2C]	0.96	0.20	µg/L	1.000		95.6	40-140	9.22	20	
Surrogate: Decachlorobiphenyl	*1.43*		µg/L	4.000		35.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.64*		µg/L	4.000		41.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.24*		µg/L	4.000		55.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.26*		µg/L	4.000		56.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392782 - SW-846 3510C										
Matrix Spike (B392782-MS1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.81	0.19	µg/L	0.9313	ND	87.3	40-140			
Aroclor-1016 [2C]	0.89	0.19	µg/L	0.9313	ND	95.4	40-140			
Aroclor-1260	0.83	0.19	µg/L	0.9313	ND	89.3	40-140			
Aroclor-1260 [2C]	0.98	0.19	µg/L	0.9313	ND	106	40-140			
Surrogate: Decachlorobiphenyl	*2.61*		µg/L	3.725		69.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.02*		µg/L	3.725		81.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.50*		µg/L	3.725		67.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.59*		µg/L	3.725		69.4	30-150			
Matrix Spike Dup (B392782-MSD1)	**Source: 24K1406-01**			Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.84	0.18	µg/L	0.8992	ND	93.0	40-140	2.77	50	
Aroclor-1016 [2C]	0.99	0.18	µg/L	0.8992	ND	110	40-140	10.7	50	
Aroclor-1260	0.86	0.18	µg/L	0.8992	ND	95.2	40-140	2.85	50	
Aroclor-1260 [2C]	1.0	0.18	µg/L	0.8992	ND	113	40-140	3.48	50	
Surrogate: Decachlorobiphenyl	*2.67*		µg/L	3.597		74.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.06*		µg/L	3.597		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.66*		µg/L	3.597		74.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.75*		µg/L	3.597		76.5	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393825 - SW-846 7470A Prep										
Blank (B393825-BLK1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	ND	0.00020	mg/L							
LCS (B393825-BS1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00347	0.00020	mg/L	0.004020		86.4	80-120			
LCS Dup (B393825-BSD1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00362	0.00020	mg/L	0.004020		90.2	80-120	4.23	20	
Batch B394212 - SW-846 7470A Prep										
Blank (B394212-BLK1)				Prepared: 12/11/24 Analyzed: 12/12/24						
Mercury	ND	0.00020	mg/L							
LCS (B394212-BS1)				Prepared: 12/11/24 Analyzed: 12/12/24						
Mercury	0.00405	0.00020	mg/L	0.004020		101	80-120			
LCS Dup (B394212-BSD1)				Prepared: 12/11/24 Analyzed: 12/12/24						
Mercury	0.00400	0.00020	mg/L	0.004020		99.5	80-120	1.29	20	
Matrix Spike (B394212-MS1)	**Source: 24K1406-01**			Prepared: 12/11/24 Analyzed: 12/12/24						
Mercury	0.00409	0.00020	mg/L	0.004020	ND	102	75-125			
Matrix Spike Dup (B394212-MSD1)	**Source: 24K1406-01**			Prepared: 12/11/24 Analyzed: 12/12/24						
Mercury	0.00419	0.00020	mg/L	0.004020	ND	104	75-125	2.39	20	
Batch B394526 - SW-846 3005A										
Blank (B394526-BLK1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394526 - SW-846 3005A										
Blank (B394526-BLK2)				Prepared: 12/13/24 Analyzed: 12/17/24						
Nickel	ND	0.010	mg/L							
Blank (B394526-BLK3)				Prepared: 12/13/24 Analyzed: 12/17/24						
Copper	ND	0.010	mg/L							
Lead	0.0060	0.010	mg/L							B, J
Selenium	ND	0.050	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B394526-BS1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	0.494	0.050	mg/L	0.5000		98.8	80-120			
Antimony	0.524	0.050	mg/L	0.5000		105	80-120			
Arsenic	0.487	0.010	mg/L	0.5000		97.4	80-120			
Barium	0.512	0.050	mg/L	0.5000		102	80-120			
Beryllium	0.503	0.0040	mg/L	0.5000		101	80-120			
Cadmium	0.528	0.0040	mg/L	0.5000		106	80-120			
Calcium	3.96	0.50	mg/L	4.000		99.1	80-120			
Chromium	0.520	0.010	mg/L	0.5000		104	80-120			
Cobalt	0.524	0.010	mg/L	0.5000		105	80-120			
Iron	4.02	0.050	mg/L	4.000		101	80-120			
Lead	0.512	0.010	mg/L	0.5000		102	80-120			
Magnesium	3.88	0.050	mg/L	4.000		97.0	80-120			
Manganese	0.507	0.010	mg/L	0.5000		101	80-120			
Potassium	3.89	2.0	mg/L	4.000		97.2	80-120			
Silver	0.546	0.010	mg/L	0.5000		109	80-120			
Sodium	4.01	2.0	mg/L	4.000		100	80-120			
Thallium	0.525	0.050	mg/L	0.5000		105	80-120			
Vanadium	0.534	0.010	mg/L	0.5000		107	80-120			
LCS (B394526-BS2)				Prepared: 12/13/24 Analyzed: 12/17/24						
Nickel	0.534	0.010	mg/L	0.5000		107	80-120			
LCS (B394526-BS3)				Prepared: 12/13/24 Analyzed: 12/17/24						
Copper	1.03	0.010	mg/L	1.000		103	80-120			
Selenium	0.566	0.050	mg/L	0.5000		113	80-120			
Zinc	1.09	0.010	mg/L	1.000		109	80-120			
LCS Dup (B394526-BSD1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	0.496	0.050	mg/L	0.5000		99.1	80-120	0.281	30	
Antimony	0.530	0.050	mg/L	0.5000		106	80-120	1.09	20	
Arsenic	0.491	0.010	mg/L	0.5000		98.2	80-120	0.818	20	
Barium	0.523	0.050	mg/L	0.5000		105	80-120	2.05	20	
Beryllium	0.513	0.0040	mg/L	0.5000		103	80-120	2.10	20	
Cadmium	0.535	0.0040	mg/L	0.5000		107	80-120	1.29	20	
Calcium	4.00	0.50	mg/L	4.000		99.9	80-120	0.794	20	
Chromium	0.522	0.010	mg/L	0.5000		104	80-120	0.409	20	
Cobalt	0.527	0.010	mg/L	0.5000		105	80-120	0.620	20	
Iron	4.07	0.050	mg/L	4.000		102	80-120	1.05	20	
Lead	0.512	0.010	mg/L	0.5000		102	80-120	0.00333	20	
Magnesium	3.87	0.050	mg/L	4.000		96.8	80-120	0.144	20	
Manganese	0.514	0.010	mg/L	0.5000		103	80-120	1.37	20	
Potassium	4.02	2.0	mg/L	4.000		101	80-120	3.43	20	
Silver	0.544	0.010	mg/L	0.5000		109	80-120	0.345	20	
Sodium	4.07	2.0	mg/L	4.000		102	80-120	1.32	20	
Thallium	0.533	0.050	mg/L	0.5000		107	80-120	1.45	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B394526 - SW-846 3005A											
LCS Dup (B394526-BSD1)				Prepared: 12/13/24 Analyzed: 12/16/24							
Vanadium	0.534	0.010	mg/L	0.5000		107		80-120	0.134	20	
LCS Dup (B394526-BSD2)				Prepared: 12/13/24 Analyzed: 12/17/24							
Nickel	0.524	0.010	mg/L	0.5000		105		80-120	1.73	30	
LCS Dup (B394526-BSD3)				Prepared: 12/13/24 Analyzed: 12/17/24							
Copper	1.01	0.010	mg/L	1.000		101		80-120	1.29	20	
Selenium	0.561	0.050	mg/L	0.5000		112		80-120	0.893	20	
Zinc	1.09	0.010	mg/L	1.000		109		80-120	0.749	20	
Matrix Spike (B394526-MS1)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/16/24							
Aluminum	0.544	0.050	mg/L	0.5000	ND	109		75-125			
Antimony	0.555	0.050	mg/L	0.5000	ND	111		75-125			
Arsenic	0.531	0.010	mg/L	0.5000	ND	106		75-125			
Barium	0.723	0.050	mg/L	0.5000	0.161	112		75-125			
Beryllium	0.511	0.0040	mg/L	0.5000	ND	102		75-125			
Cadmium	0.557	0.0040	mg/L	0.5000	ND	111		75-125			
Calcium	93.0	0.50	mg/L	4.000	85.9	**177**	*	75-125			MS-19
Chromium	0.540	0.010	mg/L	0.5000	ND	108		75-125			
Cobalt	0.524	0.010	mg/L	0.5000	ND	105		75-125			
Iron	4.15	0.050	mg/L	4.000	ND	104		75-125			
Lead	0.509	0.010	mg/L	0.5000	ND	102		75-125			
Magnesium	33.6	0.050	mg/L	4.000	28.8	118		75-125			
Manganese	0.872	0.010	mg/L	0.5000	0.345	105		75-125			
Potassium	12.2	2.0	mg/L	4.000	8.05	103		75-125			
Silver	0.557	0.010	mg/L	0.5000	ND	111		75-125			
Sodium	145	2.0	mg/L	4.000	137	**200**	*	75-125			MS-19
Thallium	0.563	0.050	mg/L	0.5000	ND	113		75-125			
Vanadium	0.565	0.010	mg/L	0.5000	ND	113		75-125			
Matrix Spike (B394526-MS2)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/17/24							
Nickel	0.510	0.010	mg/L	0.5000	0.00546	101		75-125			
Matrix Spike (B394526-MS3)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/17/24							
Copper	1.03	0.010	mg/L	1.000	ND	103		75-125			
Selenium	0.601	0.050	mg/L	0.5000	ND	120		75-125			
Zinc	1.06	0.010	mg/L	1.000	ND	106		75-125			
Matrix Spike Dup (B394526-MSD1)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/16/24							
Aluminum	0.543	0.050	mg/L	0.5000	ND	109		75-125	0.256	20	
Antimony	0.551	0.050	mg/L	0.5000	ND	110		75-125	0.710	20	
Arsenic	0.522	0.010	mg/L	0.5000	ND	104		75-125	1.85	20	
Barium	0.707	0.050	mg/L	0.5000	0.161	109		75-125	2.23	20	
Beryllium	0.509	0.0040	mg/L	0.5000	ND	102		75-125	0.401	20	
Cadmium	0.554	0.0040	mg/L	0.5000	ND	111		75-125	0.569	20	
Calcium	92.4	0.50	mg/L	4.000	85.9	**161**	*	75-125	0.679	20	MS-19
Chromium	0.535	0.010	mg/L	0.5000	ND	107		75-125	0.903	20	
Cobalt	0.516	0.010	mg/L	0.5000	ND	103		75-125	1.37	20	
Iron	4.12	0.050	mg/L	4.000	ND	103		75-125	0.496	20	
Lead	0.498	0.010	mg/L	0.5000	ND	99.6		75-125	2.07	20	
Magnesium	33.7	0.050	mg/L	4.000	28.8	122		75-125	0.395	20	
Manganese	0.870	0.010	mg/L	0.5000	0.345	105		75-125	0.274	20	
Potassium	12.3	2.0	mg/L	4.000	8.05	105		75-125	0.788	20	
Silver	0.550	0.010	mg/L	0.5000	ND	110		75-125	1.27	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B394526 - SW-846 3005A											
Matrix Spike Dup (B394526-MSD1)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/16/24							
Sodium	146	2.0	mg/L	4.000	137	**220**	*	75-125	0.545	20	MS-19
Thallium	0.557	0.050	mg/L	0.5000	ND	111		75-125	1.15	20	
Vanadium	0.555	0.010	mg/L	0.5000	ND	111		75-125	1.70	20	
Matrix Spike Dup (B394526-MSD2)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/17/24							
Nickel	0.518	0.010	mg/L	0.5000	0.00546	103		75-125	1.70	20	
Matrix Spike Dup (B394526-MSD3)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/17/24							
Copper	1.06	0.010	mg/L	1.000	ND	106		75-125	2.46	20	
Selenium	0.610	0.050	mg/L	0.5000	ND	122		75-125	1.57	20	
Zinc	1.09	0.010	mg/L	1.000	ND	109		75-125	2.37	20	
Post Spike (B394526-PS1)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/16/24							
Aluminum	2.04		mg/L	2.000	0.00859	102		75-125			
Antimony	2.07		mg/L	2.000	0.00516	103		75-125			
Arsenic	1.96		mg/L	2.000	0.00346	97.9		75-125			
Barium	2.20		mg/L	2.000	0.158	102		75-125			
Beryllium	1.96		mg/L	2.000	0.0000920	97.8		75-125			
Cadmium	2.10		mg/L	2.000	0.000220	105		75-125			
Calcium	101		mg/L	16.00	84.2	107		75-125			
Chromium	2.02		mg/L	2.000	0.00115	101		75-125			
Cobalt	1.97		mg/L	2.000	0.000286	98.3		75-125			
Iron	15.9		mg/L	16.00	0.0253	99.0		75-125			
Lead	1.87		mg/L	2.000	0.00229	93.6		75-125			
Magnesium	44.2		mg/L	16.00	28.2	99.5		75-125			
Manganese	2.35		mg/L	2.000	0.338	100		75-125			
Potassium	23.9		mg/L	16.00	7.89	100		75-125			
Silver	2.01		mg/L	2.000	-0.000300	100		75-125			
Sodium	154		mg/L	16.00	134	121		75-125			
Thallium	2.16		mg/L	2.000	0.000105	108		75-125			
Vanadium	2.10		mg/L	2.000	0.00378	105		75-125			
Dilution Check (B394526-SRL1)	**Source: 24K1406-01**			Prepared: 12/13/24 Analyzed: 12/16/24							
Aluminum	ND	0.25	mg/L		ND					20	
Antimony	ND	0.25	mg/L		ND					20	
Arsenic	ND	0.050	mg/L		ND					20	
Barium	0.161	0.25	mg/L		0.161				0.248	20	J
Beryllium	ND	0.020	mg/L		ND					20	
Cadmium	ND	0.020	mg/L		ND					20	
Calcium	87.5	2.5	mg/L		85.9				1.82	20	
Chromium	ND	0.050	mg/L		ND					20	
Cobalt	ND	0.050	mg/L		ND					20	
Iron	ND	0.25	mg/L		ND					20	
Lead	ND	0.050	mg/L		ND					20	
Magnesium	29.7	0.25	mg/L		28.8				3.06	20	
Manganese	0.350	0.050	mg/L		0.345				1.53	20	
Potassium	8.11	10	mg/L		8.05				0.690	20	J
Silver	ND	0.050	mg/L		ND					20	
Sodium	140	10	mg/L		137				1.88	20	
Thallium	ND	0.25	mg/L		ND					20	
Vanadium	ND	0.050	mg/L		ND					20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393172 - SW-846 9010C										
Blank (B393172-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Cyanide	ND	0.010	mg/L							
LCS (B393172-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Cyanide	0.30	0.010	mg/L	0.2999		99.3	80-120			
LCS Dup (B393172-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Cyanide	0.31	0.010	mg/L	0.2999		103	80-120	3.69	20	
Matrix Spike (B393172-MS1)	**Source: 24K1406-01**			Prepared: 11/26/24 Analyzed: 11/27/24						
Cyanide	0.32	0.010	mg/L	0.3000	ND	106	75-125			
Matrix Spike Dup (B393172-MSD1)	**Source: 24K1406-01**			Prepared: 11/26/24 Analyzed: 11/27/24						
Cyanide	0.30	0.010	mg/L	0.3000	ND	100	75-125	5.66	20	

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BREAKDOWN REPORT

Lab Sample ID:	S114475-PEM1	Analyzed:	11/22/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.86
Endrin [1]	3.89

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.37
Endrin [2]	4.06

BREAKDOWN REPORT

Lab Sample ID:	S114475-PEM2	Analyzed:	11/22/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.20
Endrin [1]	7.07

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.36
Endrin [2]	7.38

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392781-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.387	5.359	5.419	1.6	
	2	5.348	5.318	5.378	1.7	6.1
4,4'-DDE	1	4.901	4.872	4.932	1.6	
	2	4.882	4.853	4.913	1.7	6.1
4,4'-DDT	1	5.617	5.589	5.649	1.5	
	2	5.602	5.573	5.633	1.6	6.5
Aldrin	1	4.137	4.108	4.168	1.3	
	2	4.016	3.987	4.047	1.5	6.9
alpha-BHC	1	3.255	3.226	3.286	1.7	
	2	3.148	3.118	3.178	1.8	5.7
alpha-Chlordane	1	4.836	4.808	4.868	1.5	
	2	4.738	4.708	4.768	1.6	6.5
beta-BHC	1	3.578	3.549	3.609	1.6	
	2	3.492	3.462	3.522	1.8	5.7
delta-BHC	1	3.721	3.692	3.752	1.5	
	2	3.718	3.688	3.748	1.5	0.0
Dieldrin	1	5.143	5.114	5.174	1.6	
	2	4.998	4.969	5.029	1.7	6.1
Endosulfan I	1	4.947	4.918	4.978	1.5	
	2	4.778	4.749	4.809	1.7	12.5
Endosulfan II	1	5.514	5.486	5.546	1.6	
	2	5.413	5.384	5.444	1.7	6.1
Endosulfan Sulfate	1	6.185	6.156	6.216	1.5	
	2	5.913	5.884	5.944	1.6	6.5
Endrin	1	5.332	5.303	5.363	1.6	
	2	5.240	5.211	5.271	1.7	6.1
Endrin Aldehyde	1	5.859	5.830	5.890	1.4	
	2	5.689	5.660	5.720	1.5	6.9
Endrin Ketone	1	6.376	6.347	6.407	1.5	
	2	6.288	6.258	6.318	1.5	0.0
gamma-BHC (Lindane)	1	3.510	3.481	3.541	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392781-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.424	3.393	3.453	1.7	6.1
gamma-Chlordane	1	4.728	4.699	4.759	1.5	
	2	4.620	4.591	4.651	1.7	12.5
Heptachlor	1	3.894	3.865	3.925	1.5	
	2	3.766	3.736	3.796	1.6	6.5
Heptachlor Epoxide	1	4.628	4.599	4.659	1.5	
	2	4.469	4.440	4.500	1.7	6.1
Methoxychlor	1	6.007	5.978	6.038	1.5	
	2	6.142	6.112	6.172	1.4	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392781-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.388	5.359	5.419	1.9	
	2	5.348	5.318	5.378	2.0	5.1
4,4'-DDE	1	4.902	4.872	4.932	1.9	
	2	4.882	4.853	4.913	2.0	5.1
4,4'-DDT	1	5.618	5.589	5.649	1.8	
	2	5.603	5.573	5.633	1.9	5.4
Aldrin	1	4.137	4.108	4.168	1.6	
	2	4.017	3.987	4.047	1.8	11.8
alpha-BHC	1	3.255	3.226	3.286	1.9	
	2	3.148	3.118	3.178	2.0	5.1
alpha-Chlordane	1	4.837	4.808	4.868	1.8	
	2	4.738	4.708	4.768	1.9	5.4
beta-BHC	1	3.579	3.549	3.609	1.9	
	2	3.492	3.462	3.522	2.0	5.1
delta-BHC	1	3.721	3.692	3.752	1.7	
	2	3.718	3.688	3.748	1.8	5.7
Dieldrin	1	5.143	5.114	5.174	1.8	
	2	4.998	4.969	5.029	2.0	10.5
Endosulfan I	1	4.948	4.918	4.978	1.8	
	2	4.778	4.749	4.809	1.9	5.4
Endosulfan II	1	5.515	5.486	5.546	1.8	
	2	5.413	5.384	5.444	2.0	10.5
Endosulfan Sulfate	1	6.186	6.156	6.216	1.8	
	2	5.914	5.884	5.944	1.9	5.4
Endrin	1	5.333	5.303	5.363	1.9	
	2	5.240	5.211	5.271	2.0	5.1
Endrin Aldehyde	1	5.859	5.830	5.890	1.6	
	2	5.689	5.660	5.720	1.7	6.1
Endrin Ketone	1	6.376	6.347	6.407	1.8	
	2	6.288	6.258	6.318	1.8	0.0
gamma-BHC (Lindane)	1	3.510	3.481	3.541	1.8	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392781-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.423	3.393	3.453	1.9	5.4
gamma-Chlordane	1	4.728	4.699	4.759	1.8	
	2	4.620	4.591	4.651	1.9	5.4
Heptachlor	1	3.895	3.865	3.925	1.7	
	2	3.765	3.736	3.796	1.9	11.1
Heptachlor Epoxide	1	4.628	4.599	4.659	1.8	
	2	4.469	4.440	4.500	1.9	5.4
Methoxychlor	1	6.008	5.978	6.038	1.8	
	2	6.142	6.112	6.172	1.7	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392781-MS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.386	5.357	5.417	1.9	
	2	5.347	5.318	5.378	1.9	0.0
4,4'-DDE	1	4.900	4.871	4.931	1.7	
	2	4.882	4.852	4.912	1.8	5.7
4,4'-DDT	1	5.616	5.587	5.647	1.7	
	2	5.602	5.572	5.632	1.8	5.7
Aldrin	1	4.136	4.107	4.167	1.5	
	2	4.016	3.986	4.046	1.6	6.5
alpha-BHC	1	3.254	3.225	3.285	1.8	
	2	3.148	3.118	3.178	1.9	5.4
beta-BHC	1	3.577	3.548	3.608	1.8	
	2	3.491	3.461	3.521	1.9	5.4
delta-BHC	1	3.720	3.690	3.750	1.6	
	2	3.718	3.687	3.747	1.7	6.1
Dieldrin	1	5.142	5.112	5.172	1.7	
	2	4.998	4.968	5.028	1.9	11.1
Endosulfan I	1	4.946	4.917	4.977	1.7	
	2	4.778	4.748	4.808	1.8	5.7
Endosulfan II	1	5.513	5.484	5.544	1.8	
	2	5.413	5.382	5.442	1.8	0.0
Endosulfan Sulfate	1	6.184	6.155	6.215	1.7	
	2	5.913	5.883	5.943	1.8	5.7
Endrin	1	5.332	5.302	5.362	1.8	
	2	5.240	5.210	5.270	1.9	5.4
Endrin Aldehyde	1	5.857	5.828	5.888	1.6	
	2	5.689	5.658	5.718	1.6	0.0
Endrin Ketone	1	6.375	6.345	6.405	1.7	
	2	6.288	6.258	6.318	1.8	5.7
gamma-BHC (Lindane)	1	3.509	3.480	3.540	1.7	
	2	3.423	3.393	3.453	1.9	11.1
Heptachlor	1	3.893	3.863	3.923	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392781-MS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.765	3.735	3.795	1.7	6.1
Heptachlor Epoxide	1	4.627	4.597	4.657	1.7	
	2	4.469	4.439	4.499	1.8	5.7
Methoxychlor	1	6.006	5.977	6.037	1.7	
	2	6.141	6.111	6.171	1.7	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392781-MSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.387	5.357	5.417	1.7	
	2	5.347	5.318	5.378	1.7	0.0
4,4'-DDE	1	4.901	4.871	4.931	1.6	
	2	4.882	4.852	4.912	1.7	6.1
4,4'-DDT	1	5.617	5.587	5.647	1.5	
	2	5.602	5.572	5.632	1.6	6.5
Aldrin	1	4.137	4.107	4.167	1.4	
	2	4.016	3.986	4.046	1.5	6.9
alpha-BHC	1	3.255	3.225	3.285	1.7	
	2	3.148	3.118	3.178	1.8	5.7
beta-BHC	1	3.579	3.548	3.608	1.6	
	2	3.491	3.461	3.521	1.7	6.1
delta-BHC	1	3.721	3.690	3.750	1.4	
	2	3.717	3.687	3.747	1.5	6.9
Dieldrin	1	5.142	5.112	5.172	1.6	
	2	4.997	4.968	5.028	1.7	6.1
Endosulfan I	1	4.947	4.917	4.977	1.5	
	2	4.778	4.748	4.808	1.7	12.5
Endosulfan II	1	5.513	5.484	5.544	1.6	
	2	5.413	5.382	5.442	1.7	6.1
Endosulfan Sulfate	1	6.184	6.155	6.215	1.5	
	2	5.913	5.883	5.943	1.6	6.5
Endrin	1	5.332	5.302	5.362	1.6	
	2	5.240	5.210	5.270	1.7	0.0
Endrin Aldehyde	1	5.857	5.828	5.888	1.4	
	2	5.689	5.658	5.718	1.5	6.9
Endrin Ketone	1	6.375	6.345	6.405	1.6	
	2	6.287	6.258	6.318	1.6	0.0
gamma-BHC (Lindane)	1	3.510	3.480	3.540	1.6	
	2	3.423	3.393	3.453	1.7	6.1
Heptachlor	1	3.894	3.863	3.923	1.5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392781-MSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.765	3.735	3.795	1.6	6.5
Heptachlor Epoxide	1	4.627	4.597	4.657	1.6	
	2	4.469	4.439	4.499	1.7	6.1
Methoxychlor	1	6.006	5.977	6.037	1.6	
	2	6.141	6.111	6.171	1.5	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B392782-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.96	8.7
Aroclor-1260	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	1.0	11.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B392782-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.87	9.6
Aroclor-1260	1	0.000	0.000	0.000	0.81	
	2	0.000	0.000	0.000	0.96	16.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B392782-MS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.81	
	2	0.000	0.000	0.000	0.89	9.4
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.98	16.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B392782-MSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.99	16.4
Aroclor-1260	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	1.0	15.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Sample frozen to extend holding time to 90 days.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

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Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24K1406

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RM

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: E+E
Consultant Address:	One Penn Plaza, New York City, NY
Consultant Phone:	732-979-7572
Callout Project Name:	
Project Location:	Court and Luquer, Brooklyn, NY
Callout Number:	C100913
Site/Spill Number:	224414
Project Manager:	Greg Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	Greg Mayer
Sampled By:	Greg Mayer

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Mercury 7471B	Cyanide 9010B					# of Containers
								3	2	4	4	1	3	1	1					[2] Preservation Code
																				[3] Container Code
1 2	CLMW-05I	11/15/24	10:10		X	GW		X	X	X	X	X	X	X	X					2
2	CLMW-05S	11/15/24	12:45		X	GW		X	X	X	X	X	X	X	X					2
1	MS/MSD	11/15/24	10:10		X	GW		X	X	X	X	X	X	X	X					2
3	Trip Blank	11/15/24	—		—	AQ		X												1

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	11/15/24 1715
Received by: (signature)	Date/Time:	11/15/24 1715
Relinquished by: (signature)	Date/Time:	11/15/24 1730
Received by: (signature) PACE	Date/Time:	11/15/24 1830
Relinquished by: (signature) PACE	Date/Time:	11/15/24
Received by: (signature)	Date/Time:	11/16/24 2300
		11/16/24 0245

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] *AIHA-LAP,LLC*

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client WSP (DEC)

Project Court & Lacquer

MCP/RCP Required no

Deliverable Package Requirement NY Cat B

Location Brooklyn, NY

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 11/16/24 0800

Back-Sheet By / Date / Time MM 11/19/24 0534

Temperature Method Gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 1.4, 1Ø

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

* One TSS bottle for MS/MSD sample

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☐
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Soils Jars	(Circle Amb/Clear)	16oz Amb/Clear																				
		8oz Amb/Clear																				
		4oz Amb/Clear																				
		2oz Amb/Clear																				
Ambers	1 Liter	Unpreserved	6	6																		
		HCL																				
		Sulfuric																				
	250mL	Sulfuric																				
		Phosphoric																				
		HCl																				
	100mL	Unpreserved	8	6																		
Plastics	1 Liter	Unpreserved																				
		Sulfuric																				
	500mL	Unpreserved	6	6																		
		Sulfuric																				
	250mL	Unpreserved																				
		Trizma																				
		Sulfuric																				
		Nitric	3	1																		
		NaOH	3	1																		
		Ammonium Acetate																				
		NaOH/Zinc																				
VOA Vials		Unpreserved																				
		HCl	4	3	2																	
		MeOH																				
		D.I. Water																				
		BiSulfate																				
Other / Fill in		Col/Bact																				
		125ml plastic unp.	1	↓																		

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 17, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Court and Luquer St, Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K1416

Enclosed are results of analyses for samples as received by the laboratory on November 15, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/17/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1416

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Court and Luquer St, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-01S	24K1416-01	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-04I	24K1416-02	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-04S	24K1416-03	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Field Blank	24K1416-04	Field Blank		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Trip Blank	24K1416-05	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

D5-NEtFOSAA
S115487-CCB2, S115487-CCB3

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorooctanesulfonic acid (PFOS)
24K1416-02[CLMW-04I]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
B393842-MRL1, S115308-CCV2, S115308-CCV3

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
B393842-BLK1

SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Lead
B394526-BLK3

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Lead
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank]

SW-846 8081B

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24K1416-01[CLMW-01S]

SW-846 8260D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B392861-BSD1

Pace Analytical Services, LLC - East Longmeadow, Ma

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RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

24K1416-01[CLMW-01S]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], 24K1416-05[Trip Blank], B392861-BLK1, B392861-BS1, B392861-BSD1, S114483-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B392861-BS1, B392861-BSD1, S114483-CCV1

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24K1416-01[CLMW-01S]

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Hexachloroethane

B392794-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B392794-BSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2,4,5-Tetrachlorobenzene
B392794-BS1, B392794-BSD1

1-Methylnaphthalene
B392794-BS1, B392794-BSD1

2,3,4,6-Tetrachlorophenol
B392794-BS1, B392794-BSD1

2,4,5-Trichlorophenol
B392794-BS1, B392794-BSD1

2,4,6-Trichlorophenol
B392794-BS1, B392794-BSD1

2,4-Dichlorophenol
B392794-BS1, B392794-BSD1

2,4-Dinitrophenol
B392794-BS1

2-Chloronaphthalene
B392794-BS1, B392794-BSD1

2-Chlorophenol
B392794-BS1, B392794-BSD1

2-Nitrophenol
B392794-BS1, B392794-BSD1

4,6-Dinitro-2-methylphenol
B392794-BS1, B392794-BSD1

4-Nitrophenol
B392794-BS1, B392794-BSD1

Acenaphthene
B392794-BS1, B392794-BSD1

Biphenyl
B392794-BS1, B392794-BSD1

Hexachlorobutadiene
B392794-BS1, B392794-BSD1

Pentachlorophenol
B392794-BS1, B392794-BSD1

Phenol
B392794-BS1, B392794-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1

Dibenz(a,h)anthracene
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1

Di-n-octylphthalate
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1

Indeno(1,2,3-cd)pyrene
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1

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V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], S114460-CCV2

Caprolactam

24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV2, S114460-CCV2

V-34

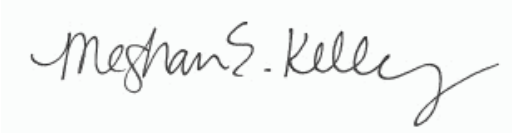
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24K1416-01[CLMW-01S], 24K1416-02[CLMW-04I], 24K1416-03[CLMW-04S], 24K1416-04[Field Blank], B392794-BLK1, B392794-BS1, B392794-BSD1, S114358-CCV1, S114460-CCV1, S114725-ICV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	4.1	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Amyl Alcohol (TAA)	ND	10	2.6	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	1.0	0.32	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.30	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Benzene	ND	2.0	0.29	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Bromochloromethane	ND	2.0	0.64	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Bromodichloromethane	1.1	1.0	0.37	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Bromoform	ND	2.0	0.60	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Bromomethane	ND	4.0	3.0	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
2-Butanone (MEK)	ND	40	2.8	µg/L	2	V-05	SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Butyl Alcohol (TBA)	ND	40	6.8	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
n-Butylbenzene	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
sec-Butylbenzene	ND	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Butylbenzene	ND	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.32	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Carbon Disulfide	ND	10	3.1	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Carbon Tetrachloride	ND	10	0.39	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Chlorobenzene	ND	2.0	0.35	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Chlorodibromomethane	ND	1.0	0.26	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Chloroethane	ND	4.0	0.92	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Chloroform	15	4.0	0.38	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Chloromethane	ND	4.0	0.99	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Cyclohexane	ND	10	3.5	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.3	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.25	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2-Dichlorobenzene	ND	2.0	0.35	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,3-Dichlorobenzene	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,4-Dichlorobenzene	ND	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.40	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1-Dichloroethane	ND	2.0	0.30	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2-Dichloroethane	ND	2.0	0.25	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1-Dichloroethylene	ND	2.0	0.36	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
cis-1,2-Dichloroethylene	1.3	2.0	0.40	µg/L	2	J	SW-846 8260D	11/21/24	11/24/24 18:14	EEH
trans-1,2-Dichloroethylene	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2-Dichloropropane	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
cis-1,3-Dichloropropene	ND	1.0	0.26	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
trans-1,3-Dichloropropene	ND	1.0	0.29	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Diisopropyl Ether (DIPE)	ND	1.0	0.34	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Ethanol	ND	100	41	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Ethylbenzene	ND	2.0	0.27	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
2-Hexanone (MBK)	ND	20	2.7	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Methyl Acetate	ND	2.0	0.96	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Methyl Cyclohexane	ND	2.0	0.27	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Methylene Chloride	ND	10	0.38	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.7	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Naphthalene	ND	4.0	0.49	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
n-Propylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Styrene	ND	2.0	0.26	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.20	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Tetrachloroethylene	170	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Toluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2,3-Trichlorobenzene	ND	10	0.43	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.39	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1,1-Trichloroethane	ND	2.0	0.28	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1,2-Trichloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Trichloroethylene	5.0	2.0	0.33	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	0.29	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2,3-Trichloropropane	ND	4.0	0.54	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.32	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,2,4-Trimethylbenzene	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.34	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Vinyl Chloride	ND	4.0	0.39	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
m+p Xylene	ND	4.0	0.49	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
o-Xylene	ND	2.0	0.31	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH
Xylenes (total)	ND	2.0	2.0	µg/L	2		SW-846 8260D	11/21/24	11/24/24 18:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.0	70-130		11/24/24 18:14
Toluene-d8	101	70-130		11/24/24 18:14
4-Bromofluorobenzene	105	70-130		11/24/24 18:14

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfur dioxide	20	µg/L	239263	0.906	2	007446-09-5	83	SW-846 8260D	11/21/24	11/24/24 18:14	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Biphenyl	ND	18	0.83	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Caprolactam	ND	9.0	0.64	µg/L	1	V-06, L-04	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Aniline	ND	18	8.1	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	0.67	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Butylbenzylphthalate	ND	9.0	0.36	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Chloroaniline	ND	9.0	4.7	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4-Dinitrophenol	ND	9.0	1.2	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,6-Dinitrotoluene	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Hexachlorocyclopentadiene	ND	9.0	2.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Hexachloroethane	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
1-Methylnaphthalene	ND	4.5	0.88	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Methylnaphthalene	ND	4.5	0.84	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Nitroaniline	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
3-Nitroaniline	ND	9.0	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Nitrobenzene	ND	9.0	0.61	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
4-Nitrophenol	ND	9.0	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
Pyridine	ND	18	4.6	µg/L	1	V-34	SW-846 8270E	11/21/24	11/22/24 21:50	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 21:50	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.0	15-110		11/22/24 21:50
Phenol-d6	26.9	15-110		11/22/24 21:50
Nitrobenzene-d5	76.0	30-130		11/22/24 21:50
2-Fluorobiphenyl	71.6	30-130		11/22/24 21:50
2,4,6-Tribromophenol	76.6	15-110		11/22/24 21:50
p-Terphenyl-d14	92.4	30-130		11/22/24 21:50

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	11/21/24	12/4/24 20:30	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	25.3	15-110		12/4/24 20:30	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	22	6.2	0.78	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoropentanoic acid (PFPeA)	32	3.1	0.43	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorohexanoic acid (PFHxA)	32	1.5	0.27	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoroheptanoic acid (PFHpA)	29	1.5	0.27	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorooctanoic acid (PFOA)	210	1.5	0.40	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorononanoic acid (PFNA)	1.7	1.5	0.63	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.50	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorobutanesulfonic acid (PFBS)	4.8	1.5	0.33	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorohexanesulfonic acid (PFHxS)	3.6	1.5	0.60	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorooctanesulfonic acid (PFOS)	4.1	1.5	0.39	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.70	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.63	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.7	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/8/24	12/12/24 21:22	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	94.0	5-130		12/12/24 21:22
13C5-PFPeA	90.7	40-130		12/12/24 21:22
13C5-PFHxA	93.4	40-130		12/12/24 21:22
13C4-PFHpA	90.7	40-130		12/12/24 21:22
13C8-PFOA	96.2	40-130		12/12/24 21:22
13C9-PFNA	92.9	40-130		12/12/24 21:22
13C6-PFDA	89.0	40-130		12/12/24 21:22
13C7-PFUnA	85.6	30-130		12/12/24 21:22
13C2-PFDoA	69.8	10-130		12/12/24 21:22
13C2-PFTeDA	65.0	10-130		12/12/24 21:22
13C3-PFBS	92.4	40-135		12/12/24 21:22
13C3-PFHxS	90.1	40-130		12/12/24 21:22
13C8-PFOS	84.4	40-130		12/12/24 21:22
13C2-4:2FTS	150	40-200		12/12/24 21:22
13C2-6:2FTS	104	40-200		12/12/24 21:22
13C2-8:2FTS	81.8	40-300		12/12/24 21:22
13C8-PFOSA	81.8	40-130		12/12/24 21:22
D3-NMeFOSA	54.5	10-130		12/12/24 21:22
D5-NEtFOSA	47.5	10-130		12/12/24 21:22
D3-NMeFOSAA	92.3	40-170		12/12/24 21:22
D5-NEtFOSAA	99.1	25-135		12/12/24 21:22
D7-NMeFOSE	52.6	10-130		12/12/24 21:22
D9-NEtFOSE	52.3	10-130		12/12/24 21:22
13C3-HFPO-DA	98.9	40-130		12/12/24 21:22

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: H-06

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 21:50	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
gamma-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Aldrin [1]	ND	0.045	0.0032	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
alpha-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
beta-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
delta-BHC [1]	ND	0.045	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0038	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
4,4'-DDD [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
4,4'-DDE [1]	ND	0.036	0.0027	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
4,4'-DDT [1]	ND	0.036	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Dieldrin [1]	ND	0.0018	0.0013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endosulfan I [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endosulfan II [1]	ND	0.072	0.013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endosulfan sulfate [1]	ND	0.072	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endrin [1]	ND	0.072	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endrin aldehyde [1]	ND	0.072	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Endrin ketone [1]	ND	0.072	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Heptachlor [1]	ND	0.045	0.0040	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Heptachlor epoxide [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Methoxychlor [1]	ND	0.45	0.062	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG
Toxaphene [1]	ND	0.90	0.36	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.2	30-150		11/22/24 21:43
Decachlorobiphenyl [2]	85.1	30-150		11/22/24 21:43
Tetrachloro-m-xylene [1]	69.2	30-150		11/22/24 21:43
Tetrachloro-m-xylene [2]	72.9	30-150		11/22/24 21:43

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1221 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1232 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1242 [1]	ND	0.18	0.097	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1248 [1]	ND	0.18	0.085	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1254 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1262 [1]	ND	0.18	0.074	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM
Aroclor-1268 [1]	ND	0.18	0.068	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:11	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.7	30-150		11/22/24 14:11
Decachlorobiphenyl [2]	76.3	30-150		11/22/24 14:11
Tetrachloro-m-xylene [1]	70.6	30-150		11/22/24 14:11
Tetrachloro-m-xylene [2]	73.4	30-150		11/22/24 14:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.064	0.050	0.025	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Barium	0.077	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Calcium	63	0.50	0.21	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:59	MJH
Iron	0.11	0.050	0.036	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Lead	ND	0.010	0.0044	mg/L	1	B-05	SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Magnesium	19	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Manganese	0.041	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/5/24	12/9/24 15:03	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	12/13/24	12/17/24 12:42	MJH
Potassium	5.5	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:59	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Sodium	230	2.0	0.38	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:17	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 9:59	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-01S Sampled: 11/13/2024 16:10

Sample ID: 24K1416-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Bromodichloromethane	0.30	0.50	0.19	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Chloroform	3.6	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
cis-1,2-Dichloroethylene	0.54	1.0	0.20	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 17:49	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Tetrachloroethylene	140	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Trichloroethylene	2.8	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.7	70-130		11/24/24 17:49
Toluene-d8	101	70-130		11/24/24 17:49
4-Bromofluorobenzene	104	70-130		11/24/24 17:49

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfur dioxide	10	µg/L	240602	0.904	1	007446-09-5	83	SW-846 8260D	11/21/24	11/24/24 17:49	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.5	µg/L	1	V-06	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Atrazine	ND	20	1.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzaldehyde	ND	9.8	0.71	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Biphenyl	ND	20	0.90	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Caprolactam	ND	9.8	0.70	µg/L	1	V-06, L-04	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Acenaphthene	ND	4.9	0.77	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Acenaphthylene	ND	4.9	0.63	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Acetophenone	ND	9.8	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Aniline	ND	20	8.8	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Anthracene	ND	4.9	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzo(a)anthracene	ND	4.9	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzo(a)pyrene	ND	4.9	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzo(b)fluoranthene	ND	4.9	0.32	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzo(g,h,i)perylene	ND	4.9	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Benzo(k)fluoranthene	ND	4.9	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Bis(2-chloroethoxy)methane	ND	9.8	0.56	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Bis(2-chloroethyl)ether	ND	9.8	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.8	0.73	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.8	0.32	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Bromophenylphenylether	ND	9.8	0.70	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Butylbenzylphthalate	ND	9.8	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Carbazole	ND	9.8	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Chloroaniline	ND	9.8	5.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Chloro-3-methylphenol	ND	9.8	0.62	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Chloronaphthalene	ND	9.8	0.80	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Chlorophenol	ND	9.8	0.40	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Chlorophenylphenylether	ND	9.8	0.85	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Chrysene	ND	4.9	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Dibenz(a,h)anthracene	ND	4.9	0.47	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Dibenzofuran	ND	4.9	0.84	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Di-n-butylphthalate	ND	9.8	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
3,3-Dichlorobenzidine	ND	9.8	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4-Dichlorophenol	ND	9.8	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Diethylphthalate	ND	9.8	0.55	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4-Dimethylphenol	ND	9.8	0.40	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Dimethylphthalate	ND	9.8	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4-Dinitrophenol	ND	9.8	1.3	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4-Dinitrotoluene	ND	9.8	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,6-Dinitrotoluene	ND	9.8	0.54	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Di-n-octylphthalate	ND	9.8	0.32	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Fluoranthene	ND	4.9	0.55	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Fluorene	ND	4.9	0.74	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Hexachlorobenzene	ND	9.8	0.71	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.8	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Hexachlorocyclopentadiene	ND	9.8	2.8	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Hexachloroethane	ND	9.8	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Indeno(1,2,3-cd)pyrene	ND	4.9	0.47	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Isophorone	ND	9.8	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
1-Methylnaphthalene	ND	4.9	0.96	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Methylnaphthalene	ND	4.9	0.91	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Methylphenol	ND	9.8	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
3/4-Methylphenol	ND	9.8	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Naphthalene	ND	4.9	0.89	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Nitroaniline	ND	9.8	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
3-Nitroaniline	ND	9.8	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Nitroaniline	ND	9.8	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Nitrobenzene	ND	9.8	0.66	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2-Nitrophenol	ND	9.8	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
4-Nitrophenol	ND	9.8	1.3	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.8	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
N-Nitrosodi-n-propylamine	ND	9.8	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Pentachlorophenol	ND	9.8	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Phenanthrene	ND	4.9	0.70	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Phenol	ND	9.8	0.58	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Pyrene	ND	4.9	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
Pyridine	ND	20	5.0	µg/L	1	V-34	SW-846 8270E	11/21/24	11/22/24 22:10	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.8	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4,5-Trichlorophenol	ND	9.8	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL
2,4,6-Trichlorophenol	ND	9.8	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:10	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.6	15-110		11/22/24 22:10
Phenol-d6	31.4	15-110		11/22/24 22:10
Nitrobenzene-d5	77.1	30-130		11/22/24 22:10
2-Fluorobiphenyl	70.3	30-130		11/22/24 22:10
2,4,6-Tribromophenol	76.0	15-110		11/22/24 22:10
p-Terphenyl-d14	89.1	30-130		11/22/24 22:10

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/21/24	12/4/24 20:51	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.0	15-110		12/4/24 20:51

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	21	6.1	0.76	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoropentanoic acid (PFPeA)	28	3.0	0.42	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorohexanoic acid (PFHxA)	30	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoroheptanoic acid (PFHpA)	41	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorooctanoic acid (PFOA)	300	1.5	0.40	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorononanoic acid (PFNA)	0.75	1.5	0.62	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorobutanesulfonic acid (PFBS)	7.6	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoropentanesulfonic acid (PFPeS)	0.79	1.5	0.44	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorohexanesulfonic acid (PFHxS)	6.7	1.5	0.59	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.80	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorooctanesulfonic acid (PFOS)	2.4	1.5	0.38	ng/L	1	PF-23	Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.68	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	2.8	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	3.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.53	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	0.80	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
9Cl-PF3ONS (F53B Minor)	ND	6.1	0.89	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
11Cl-PF3OUdS (F53B Major)	ND	6.1	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.6	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.54	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/9/24	12/11/24 14:12	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	70.0	5-130		12/11/24 14:12
13C5-PFPeA	60.3	40-130		12/11/24 14:12
13C5-PFHxA	61.2	40-130		12/11/24 14:12
13C4-PFHpA	60.6	40-130		12/11/24 14:12
13C8-PFOA	66.1	40-130		12/11/24 14:12
13C9-PFNA	59.3	40-130		12/11/24 14:12
13C6-PFDA	54.2	40-130		12/11/24 14:12
13C7-PFUnA	54.5	30-130		12/11/24 14:12
13C2-PFDoA	53.8	10-130		12/11/24 14:12
13C2-PFTeDA	49.9	10-130		12/11/24 14:12
13C3-PFBS	64.4	40-135		12/11/24 14:12
13C3-PFHxS	59.2	40-130		12/11/24 14:12
13C8-PFOS	56.9	40-130		12/11/24 14:12
13C2-4:2FTS	90.9	40-200		12/11/24 14:12
13C2-6:2FTS	65.2	40-200		12/11/24 14:12
13C2-8:2FTS	57.4	40-300		12/11/24 14:12
13C8-PFOSA	51.1	40-130		12/11/24 14:12
D3-NMeFOSA	34.4	10-130		12/11/24 14:12
D5-NEtFOSA	32.9	10-130		12/11/24 14:12
D3-NMeFOSAA	60.4	40-170		12/11/24 14:12
D5-NEtFOSAA	67.6	25-135		12/11/24 14:12
D7-NMeFOSE	40.6	10-130		12/11/24 14:12
D9-NEtFOSE	40.5	10-130		12/11/24 14:12
13C3-HFPO-DA	66.5	40-130		12/11/24 14:12

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 22:10	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
gamma-Chlordane [1]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Aldrin [1]	ND	0.049	0.0035	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
alpha-BHC [1]	ND	0.049	0.021	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
beta-BHC [1]	ND	0.049	0.021	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
delta-BHC [1]	ND	0.049	0.018	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0041	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
4,4'-DDD [1]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
4,4'-DDE [1]	ND	0.039	0.0029	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
4,4'-DDT [1]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Dieldrin [1]	ND	0.0020	0.0014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endosulfan I [1]	ND	0.049	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endosulfan II [1]	ND	0.079	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endosulfan sulfate [1]	ND	0.079	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endrin [1]	ND	0.079	0.018	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endrin aldehyde [1]	ND	0.079	0.021	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Endrin ketone [1]	ND	0.079	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Heptachlor [1]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Heptachlor epoxide [1]	ND	0.049	0.0036	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Methoxychlor [1]	ND	0.49	0.067	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG
Toxaphene [1]	ND	0.98	0.39	µg/L	1		SW-846 8081B	11/21/24	11/22/24 21:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		11/22/24 21:55
Decachlorobiphenyl [2]	84.3	30-150		11/22/24 21:55
Tetrachloro-m-xylene [1]	65.8	30-150		11/22/24 21:55
Tetrachloro-m-xylene [2]	69.3	30-150		11/22/24 21:55

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1221 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1232 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1248 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1260 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1262 [1]	ND	0.20	0.081	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM
Aroclor-1268 [1]	ND	0.20	0.075	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:28	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		11/22/24 14:28
Decachlorobiphenyl [2]	78.8	30-150		11/22/24 14:28
Tetrachloro-m-xylene [1]	66.5	30-150		11/22/24 14:28
Tetrachloro-m-xylene [2]	69.0	30-150		11/22/24 14:28

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Barium	0.31	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Calcium	130	0.50	0.21	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:04	MJH
Iron	0.037	0.050	0.036	mg/L	1	J	SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Lead	ND	0.010	0.0044	mg/L	1	B-05	SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Magnesium	78	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Manganese	0.57	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/5/24	12/9/24 15:04	AAJ
Nickel	0.0067	0.010	0.0046	mg/L	1	J	SW-846 6010D	12/13/24	12/17/24 10:04	NC
Potassium	6.4	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:04	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Sodium	350	2.0	0.38	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:25	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:04	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04I Sampled: 11/14/2024 11:45

Sample ID: 24K1416-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Bromodichloromethane	0.41	0.50	0.19	µg/L	1	J	SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Chloroform	2.8	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Tetrachloroethylene	5.0	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 17:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.5	70-130		11/24/24 17:23
Toluene-d8	100	70-130		11/24/24 17:23
4-Bromofluorobenzene	104	70-130		11/24/24 17:23

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/21/24	11/24/24 17:23	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Biphenyl	ND	18	0.83	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Caprolactam	ND	9.0	0.64	µg/L	1	L-04, V-06	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Aniline	ND	18	8.1	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.52	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	0.67	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Butylbenzylphthalate	ND	9.0	0.36	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Chloroaniline	ND	9.0	4.7	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4-Dinitrophenol	ND	9.0	1.2	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,6-Dinitrotoluene	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Hexachlorocyclopentadiene	ND	9.0	2.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Hexachloroethane	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
1-Methylnaphthalene	ND	4.5	0.88	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Methylnaphthalene	ND	4.5	0.84	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Nitroaniline	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
3-Nitroaniline	ND	9.0	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Nitrobenzene	ND	9.0	0.61	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
4-Nitrophenol	ND	9.0	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
Pyridine	ND	18	4.6	µg/L	1	V-34	SW-846 8270E	11/21/24	11/22/24 22:31	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	34.1	15-110		11/22/24 22:31
Phenol-d6	28.9	15-110		11/22/24 22:31
Nitrobenzene-d5	92.4	30-130		11/22/24 22:31
2-Fluorobiphenyl	85.1	30-130		11/22/24 22:31
2,4,6-Tribromophenol	48.0	15-110		11/22/24 22:31
p-Terphenyl-d14	98.7	30-130		11/22/24 22:31

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/21/24	12/4/24 21:11	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.6	15-110		12/4/24 21:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	22	6.2	0.78	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoropentanoic acid (PFPeA)	36	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorohexanoic acid (PFHxA)	34	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoroheptanoic acid (PFHpA)	29	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorooctanoic acid (PFOA)	250	1.6	0.41	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorobutanesulfonic acid (PFBS)	14	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoropentanesulfonic acid (PFPeS)	1.2	1.6	0.46	ng/L	1	J	Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorohexanesulfonic acid (PFHxS)	8.8	1.6	0.60	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.82	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.39	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.45	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.83	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.7	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:47	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.3	5-130		12/14/24 22:47
13C5-PFPeA	73.5	40-130		12/14/24 22:47
13C5-PFHxA	75.7	40-130		12/14/24 22:47
13C4-PFHpA	75.1	40-130		12/14/24 22:47
13C8-PFOA	79.0	40-130		12/14/24 22:47
13C9-PFNA	74.0	40-130		12/14/24 22:47
13C6-PFDA	68.2	40-130		12/14/24 22:47
13C7-PFUnA	63.7	30-130		12/14/24 22:47
13C2-PFDoA	57.7	10-130		12/14/24 22:47
13C2-PFTeDA	52.8	10-130		12/14/24 22:47
13C3-PFBS	79.5	40-135		12/14/24 22:47
13C3-PFHxS	77.9	40-130		12/14/24 22:47
13C8-PFOS	66.9	40-130		12/14/24 22:47
13C2-4:2FTS	141	40-200		12/14/24 22:47
13C2-6:2FTS	94.1	40-200		12/14/24 22:47
13C2-8:2FTS	68.9	40-300		12/14/24 22:47
13C8-PFOSA	53.5	40-130		12/14/24 22:47
D3-NMeFOSA	41.6	10-130		12/14/24 22:47
D5-NEtFOSA	39.2	10-130		12/14/24 22:47
D3-NMeFOSAA	61.2	40-170		12/14/24 22:47
D5-NEtFOSAA	64.1	25-135		12/14/24 22:47
D7-NMeFOSE	45.9	10-130		12/14/24 22:47
D9-NEtFOSE	44.4	10-130		12/14/24 22:47
13C3-HFPO-DA	75.4	40-130		12/14/24 22:47

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 22:31	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.047	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
gamma-Chlordane [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Aldrin [1]	ND	0.047	0.0034	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
alpha-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
beta-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
delta-BHC [1]	ND	0.047	0.018	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0039	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
4,4'-DDD [1]	ND	0.037	0.0041	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
4,4'-DDE [1]	ND	0.037	0.0028	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
4,4'-DDT [1]	ND	0.037	0.0041	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Dieldrin [1]	ND	0.0019	0.0013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endosulfan I [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endosulfan II [1]	ND	0.075	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endosulfan sulfate [1]	ND	0.075	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endrin [1]	ND	0.075	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endrin aldehyde [1]	ND	0.075	0.020	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Endrin ketone [1]	ND	0.075	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Heptachlor [1]	ND	0.047	0.0041	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Heptachlor epoxide [1]	ND	0.047	0.0035	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Methoxychlor [1]	ND	0.47	0.064	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG
Toxaphene [1]	ND	0.93	0.37	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.5	30-150		11/22/24 22:07
Decachlorobiphenyl [2]	94.8	30-150		11/22/24 22:07
Tetrachloro-m-xylene [1]	78.0	30-150		11/22/24 22:07
Tetrachloro-m-xylene [2]	81.8	30-150		11/22/24 22:07

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1221 [1]	ND	0.19	0.097	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1232 [1]	ND	0.19	0.087	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1248 [1]	ND	0.19	0.088	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1254 [1]	ND	0.19	0.098	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1260 [1]	ND	0.19	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1262 [1]	ND	0.19	0.077	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM
Aroclor-1268 [1]	ND	0.19	0.071	µg/L	1		SW-846 8082A	11/21/24	11/22/24 14:45	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.3	30-150		11/22/24 14:45
Decachlorobiphenyl [2]	83.8	30-150		11/22/24 14:45
Tetrachloro-m-xylene [1]	77.6	30-150		11/22/24 14:45
Tetrachloro-m-xylene [2]	80.0	30-150		11/22/24 14:45

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Barium	0.73	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Calcium	380	0.50	0.21	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:34	MJH
Iron	0.056	0.050	0.036	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Lead	ND	0.010	0.0044	mg/L	1	B-05	SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Magnesium	200	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Manganese	0.082	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/5/24	12/9/24 15:09	AAJ
Nickel	0.0096	0.010	0.0046	mg/L	1	J	SW-846 6010D	12/13/24	12/17/24 10:34	NC
Potassium	9.8	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:34	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Sodium	1400	100	19	mg/L	50		SW-846 6010D	12/13/24	12/17/24 10:10	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Vanadium	0.0067	0.010	0.0054	mg/L	1	J	SW-846 6010D	12/13/24	12/16/24 17:33	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:34	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: CLMW-04S Sampled: 11/14/2024 14:05

Sample ID: 24K1416-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.6	70-130		11/24/24 11:26
Toluene-d8	104	70-130		11/24/24 11:26
4-Bromofluorobenzene	103	70-130		11/24/24 11:26

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/21/24	11/24/24 11:26	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04, V-06	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Acenaphthylene	ND	4.6	0.58	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Aniline	ND	18	8.2	µg/L	1	V-05	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzo(a)anthracene	ND	4.6	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.53	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.1	0.68	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.30	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Chlorophenylphenylether	ND	9.1	0.80	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Dibenz(a,h)anthracene	ND	4.6	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Dibenzofuran	ND	4.6	0.78	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4-Dinitrophenol	ND	9.1	1.2	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Fluoranthene	ND	4.6	0.51	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Fluorene	ND	4.6	0.69	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Hexachloroethane	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.43	µg/L	1	V-04	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Isophorone	ND	9.1	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
1-Methylnaphthalene	ND	4.6	0.90	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Methylnaphthalene	ND	4.6	0.85	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Nitrobenzene	ND	9.1	0.62	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2-Nitrophenol	ND	9.1	0.50	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
4-Nitrophenol	ND	9.1	1.2	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Phenanthrene	ND	4.6	0.65	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
Pyridine	ND	18	4.7	µg/L	1	V-34	SW-846 8270E	11/21/24	11/22/24 22:52	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	11/21/24	11/22/24 22:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.0	15-110		11/22/24 22:52
Phenol-d6	28.4	15-110		11/22/24 22:52
Nitrobenzene-d5	78.7	30-130		11/22/24 22:52
2-Fluorobiphenyl	72.7	30-130		11/22/24 22:52
2,4,6-Tribromophenol	64.9	15-110		11/22/24 22:52
p-Terphenyl-d14	89.7	30-130		11/22/24 22:52

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/21/24	12/4/24 21:31	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	29.5	15-110		12/4/24 21:31

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Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.2	0.78	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorooctanoic acid (PFOA)	ND	1.5	0.40	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorononanoic acid (PFNA)	ND	1.5	0.63	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.50	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.38	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.70	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.7	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/14/24 22:56	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	80.0	5-130		12/14/24 22:56
13C5-PFPeA	78.8	40-130		12/14/24 22:56
13C5-PFHxA	81.3	40-130		12/14/24 22:56
13C4-PFHpA	77.3	40-130		12/14/24 22:56
13C8-PFOA	82.3	40-130		12/14/24 22:56
13C9-PFNA	75.5	40-130		12/14/24 22:56
13C6-PFDA	74.3	40-130		12/14/24 22:56
13C7-PFUnA	72.2	30-130		12/14/24 22:56
13C2-PFDoA	63.2	10-130		12/14/24 22:56
13C2-PFTeDA	56.6	10-130		12/14/24 22:56
13C3-PFBS	78.6	40-135		12/14/24 22:56
13C3-PFHxS	75.2	40-130		12/14/24 22:56
13C8-PFOS	74.1	40-130		12/14/24 22:56
13C2-4:2FTS	79.9	40-200		12/14/24 22:56
13C2-6:2FTS	84.5	40-200		12/14/24 22:56
13C2-8:2FTS	72.1	40-300		12/14/24 22:56
13C8-PFOSA	61.3	40-130		12/14/24 22:56
D3-NMeFOSA	56.2	10-130		12/14/24 22:56
D5-NEtFOSA	53.8	10-130		12/14/24 22:56
D3-NMeFOSAA	74.7	40-170		12/14/24 22:56
D5-NEtFOSAA	82.6	25-135		12/14/24 22:56
D7-NMeFOSE	57.5	10-130		12/14/24 22:56
D9-NEtFOSE	56.1	10-130		12/14/24 22:56
13C3-HFPO-DA	82.5	40-130		12/14/24 22:56

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Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/21/24	11/22/24 22:52	BGL

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Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.044	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
gamma-Chlordane [1]	ND	0.044	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Aldrin [1]	ND	0.044	0.0032	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
alpha-BHC [1]	ND	0.044	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
beta-BHC [1]	ND	0.044	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
delta-BHC [1]	ND	0.044	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
4,4'-DDD [1]	ND	0.035	0.0039	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
4,4'-DDE [1]	ND	0.035	0.0027	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
4,4'-DDT [1]	ND	0.035	0.0039	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Dieldrin [1]	ND	0.0018	0.0012	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endosulfan I [1]	ND	0.044	0.015	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endosulfan II [1]	ND	0.071	0.013	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endosulfan sulfate [1]	ND	0.071	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endrin [1]	ND	0.071	0.017	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endrin aldehyde [1]	ND	0.071	0.019	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Endrin ketone [1]	ND	0.071	0.014	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Heptachlor [1]	ND	0.044	0.0039	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Heptachlor epoxide [1]	ND	0.044	0.0033	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Methoxychlor [1]	ND	0.44	0.061	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG
Toxaphene [1]	ND	0.89	0.36	µg/L	1		SW-846 8081B	11/21/24	11/22/24 22:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		11/22/24 22:19
Decachlorobiphenyl [2]	86.6	30-150		11/22/24 22:19
Tetrachloro-m-xylene [1]	80.3	30-150		11/22/24 22:19
Tetrachloro-m-xylene [2]	84.2	30-150		11/22/24 22:19

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Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1221 [1]	ND	0.18	0.092	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1232 [1]	ND	0.18	0.083	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1242 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1248 [1]	ND	0.18	0.083	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1254 [1]	ND	0.18	0.093	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1262 [1]	ND	0.18	0.073	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM
Aroclor-1268 [1]	ND	0.18	0.067	µg/L	1		SW-846 8082A	11/21/24	11/22/24 15:02	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		11/22/24 15:02
Decachlorobiphenyl [2]	76.1	30-150		11/22/24 15:02
Tetrachloro-m-xylene [1]	68.6	30-150		11/22/24 15:02
Tetrachloro-m-xylene [2]	67.8	30-150		11/22/24 15:02

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Sample ID: 24K1416-04

Sample Matrix: Field Blank

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Barium	ND	0.050	0.0098	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Calcium	ND	0.50	0.21	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:42	MJH
Iron	ND	0.050	0.036	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Lead	ND	0.010	0.0044	mg/L	1	B-05	SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Magnesium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Manganese	ND	0.010	0.0018	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/5/24	12/9/24 15:11	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:42	NC
Potassium	ND	2.0	0.47	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:42	MJH
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Sodium	ND	2.0	0.38	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/13/24	12/16/24 17:41	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/13/24	12/17/24 10:42	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Field Blank Sampled: 11/14/2024 15:20

Sample ID: 24K1416-04

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Trip Blank Sampled: 11/14/2024 00:00

Sample ID: 24K1416-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1	V-05	SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Trip Blank Sampled: 11/14/2024 00:00

Sample ID: 24K1416-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/21/24	11/24/24 11:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.9	70-130		11/24/24 11:52
Toluene-d8	102	70-130		11/24/24 11:52
4-Bromofluorobenzene	102	70-130		11/24/24 11:52

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer St, Brooklyn, N Sample Description: Work Order: 24K1416

Date Received: 11/15/2024

Field Sample #: Trip Blank Sampled: 11/14/2024 00:00

Sample ID: 24K1416-05

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/21/24	11/24/24 11:52	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B393842	516	4.00	12/08/24

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-02 [CLMW-04I]	B393957	527	4.00	12/09/24
24K1416-03 [CLMW-04S]	B393957	514	4.00	12/09/24
24K1416-04 [Field Blank]	B393957	516	4.00	12/09/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B394526	50.0	50.0	12/13/24
24K1416-02 [CLMW-04I]	B394526	50.0	50.0	12/13/24
24K1416-03 [CLMW-04S]	B394526	50.0	50.0	12/13/24
24K1416-04 [Field Blank]	B394526	50.0	50.0	12/13/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B393825	10.0	10.0	12/05/24
24K1416-02 [CLMW-04I]	B393825	10.0	10.0	12/05/24
24K1416-03 [CLMW-04S]	B393825	10.0	10.0	12/05/24
24K1416-04 [Field Blank]	B393825	10.0	10.0	12/05/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B392781	111	2.00	11/21/24
24K1416-02 [CLMW-04I]	B392781	102	2.00	11/21/24
24K1416-03 [CLMW-04S]	B392781	107	2.00	11/21/24
24K1416-04 [Field Blank]	B392781	113	2.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B392782	111	2.00	11/21/24
24K1416-02 [CLMW-04I]	B392782	102	2.00	11/21/24
24K1416-03 [CLMW-04S]	B392782	107	2.00	11/21/24
24K1416-04 [Field Blank]	B392782	113	2.00	11/21/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B392861	2.5	5.00	11/21/24
24K1416-02 [CLMW-04I]	B392861	5	5.00	11/21/24
24K1416-03 [CLMW-04S]	B392861	5	5.00	11/21/24

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-04 [Field Blank]	B392861	5	5.00	11/21/24
24K1416-05 [Trip Blank]	B392861	5	5.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B392793	1030	1.00	11/21/24
24K1416-02 [CLMW-04I]	B392793	1020	1.00	11/21/24
24K1416-03 [CLMW-04S]	B392793	1020	1.00	11/21/24
24K1416-04 [Field Blank]	B392793	1020	1.00	11/21/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B392794	111	1.00	11/21/24
24K1416-02 [CLMW-04I]	B392794	102	1.00	11/21/24
24K1416-03 [CLMW-04S]	B392794	111	1.00	11/21/24
24K1416-04 [Field Blank]	B392794	109	1.00	11/21/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1416-01 [CLMW-01S]	B393012	50.0	50.0	11/24/24
24K1416-02 [CLMW-04I]	B393012	50.0	50.0	11/24/24
24K1416-03 [CLMW-04S]	B393012	50.0	50.0	11/24/24
24K1416-04 [Field Blank]	B393012	50.0	50.0	11/24/24

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							V-05
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*22.5*		µg/L	25.00		90.0	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104	70-130				
LCS (B392861-BS1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Acetone	85.8	50	µg/L	100.0		85.8	70-160				†
tert-Amyl Alcohol (TAA)	88.3	5.0	µg/L	100.0		88.3	70-130				
tert-Amyl Ethyl Ether (TAEE)	9.54	0.50	µg/L	10.00		95.4	70-130				
tert-Amyl Methyl Ether (TAME)	9.57	0.50	µg/L	10.00		95.7	70-130				
Benzene	9.66	1.0	µg/L	10.00		96.6	70-130				
Bromochloromethane	9.04	1.0	µg/L	10.00		90.4	70-130				
Bromodichloromethane	10.9	0.50	µg/L	10.00		109	70-130				
Bromoform	12.1	1.0	µg/L	10.00		121	70-130				
Bromomethane	9.16	2.0	µg/L	10.00		91.6	40-160				†
2-Butanone (MEK)	74.2	20	µg/L	100.0		74.2	40-160			V-05	†
tert-Butyl Alcohol (TBA)	97.8	20	µg/L	100.0		97.8	40-160				†
n-Butylbenzene	9.13	1.0	µg/L	10.00		91.3	70-130				
sec-Butylbenzene	9.78	1.0	µg/L	10.00		97.8	70-130				
tert-Butylbenzene	10.0	1.0	µg/L	10.00		100	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.21	0.50	µg/L	10.00		92.1	70-130				
Carbon Disulfide	87.4	5.0	µg/L	100.0		87.4	70-130				
Carbon Tetrachloride	10.5	5.0	µg/L	10.00		105	70-130				
Chlorobenzene	11.3	1.0	µg/L	10.00		113	70-130				
Chlorodibromomethane	11.4	0.50	µg/L	10.00		114	70-130				
Chloroethane	8.69	2.0	µg/L	10.00		86.9	70-130				
Chloroform	9.25	2.0	µg/L	10.00		92.5	70-130				
Chloromethane	7.53	2.0	µg/L	10.00		75.3	40-160				†
Cyclohexane	8.58	5.0	µg/L	10.00		85.8	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.74	5.0	µg/L	10.00		87.4	70-130				
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00		110	70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
Dichlorodifluoromethane (Freon 12)	8.08	2.0	µg/L	10.00		80.8	40-160				†
1,1-Dichloroethane	9.30	1.0	µg/L	10.00		93.0	70-130				
1,2-Dichloroethane	9.57	1.0	µg/L	10.00		95.7	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
LCS (B392861-BS1)				Prepared: 11/21/24 Analyzed: 11/24/24							
1,1-Dichloroethylene	9.41	1.0	µg/L	10.00		94.1	70-130				
cis-1,2-Dichloroethylene	9.20	1.0	µg/L	10.00		92.0	70-130				
trans-1,2-Dichloroethylene	9.26	1.0	µg/L	10.00		92.6	70-130				
1,2-Dichloropropane	9.72	1.0	µg/L	10.00		97.2	70-130				
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130				
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130				
Diisopropyl Ether (DIPE)	9.07	0.50	µg/L	10.00		90.7	70-130				
Ethanol	99.9	50	µg/L	100.0		99.9	40-160				
Ethylbenzene	10.9	1.0	µg/L	10.00		109	70-130				
2-Hexanone (MBK)	95.1	10	µg/L	100.0		95.1	70-160				†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00		110	70-130				
p-Isopropyltoluene (p-Cymene)	9.84	1.0	µg/L	10.00		98.4	70-130				
Methyl Acetate	9.18	1.0	µg/L	10.00		91.8	70-130				
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.00		98.2	70-130				
Methyl Cyclohexane	9.40	1.0	µg/L	10.00		94.0	70-130				
Methylene Chloride	9.32	5.0	µg/L	10.00		93.2	70-130				
4-Methyl-2-pentanone (MIBK)	96.3	10	µg/L	100.0		96.3	70-160				†
Naphthalene	11.2	2.0	µg/L	10.00		112	40-130				†
n-Propylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
Styrene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.00		107	70-130				
Tetrachloroethylene	11.3	1.0	µg/L	10.00		113	70-130				
Toluene	10.4	1.0	µg/L	10.00		104	70-130				
1,2,3-Trichlorobenzene	13.0	5.0	µg/L	10.00		130	70-130			V-20	
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.00		102	70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130				
Trichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
Trichlorofluoromethane (Freon 11)	9.72	2.0	µg/L	10.00		97.2	70-130				
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.72	1.0	µg/L	10.00		97.2	70-130				
1,2,4-Trimethylbenzene	9.89	1.0	µg/L	10.00		98.9	70-130				
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130				
Vinyl Chloride	9.25	2.0	µg/L	10.00		92.5	40-160				†
m+p Xylene	21.7	2.0	µg/L	20.00		109	70-130				
o-Xylene	11.0	1.0	µg/L	10.00		110	70-130				
Xylenes (total)	32.7	1.0	µg/L	30.00		109	0-200				
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.00		89.7	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104	70-130				
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24							
Acetone	85.2	50	µg/L	100.0		85.2	70-160	0.679	25		†
tert-Amyl Alcohol (TAA)	87.8	5.0	µg/L	100.0		87.8	70-130	0.556	25		
tert-Amyl Ethyl Ether (TAEE)	9.94	0.50	µg/L	10.00		99.4	70-130	4.11	25		
tert-Amyl Methyl Ether (TAME)	9.97	0.50	µg/L	10.00		99.7	70-130	4.09	25		
Benzene	10.2	1.0	µg/L	10.00		102	70-130	5.24	25		
Bromochloromethane	9.88	1.0	µg/L	10.00		98.8	70-130	8.88	25		
Bromodichloromethane	11.1	0.50	µg/L	10.00		111	70-130	1.09	25		
Bromoform	11.7	1.0	µg/L	10.00		117	70-130	3.37	25		
Bromomethane	11.2	2.0	µg/L	10.00		112	40-160	20.5	25		†
2-Butanone (MEK)	74.1	20	µg/L	100.0		74.1	40-160	0.202	25	V-05	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392861 - SW-846 5030B											
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24							
tert-Butyl Alcohol (TBA)	94.6	20	µg/L	100.0		94.6	40-160	3.41	25		†
n-Butylbenzene	9.50	1.0	µg/L	10.00		95.0	70-130	3.97	25		
sec-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	3.91	25		
tert-Butylbenzene	10.6	1.0	µg/L	10.00		106	70-130	5.35	25		
tert-Butyl Ethyl Ether (TBEE)	9.39	0.50	µg/L	10.00		93.9	70-130	1.94	25		
Carbon Disulfide	92.4	5.0	µg/L	100.0		92.4	70-130	5.65	25		
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130	5.76	25		
Chlorobenzene	11.6	1.0	µg/L	10.00		116	70-130	2.10	25		
Chlorodibromomethane	11.7	0.50	µg/L	10.00		117	70-130	3.03	25		
Chloroethane	9.06	2.0	µg/L	10.00		90.6	70-130	4.17	25		
Chloroform	9.62	2.0	µg/L	10.00		96.2	70-130	3.92	25		
Chloromethane	8.27	2.0	µg/L	10.00		82.7	40-160	9.37	25		†
Cyclohexane	9.32	5.0	µg/L	10.00		93.2	70-130	8.27	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.43	5.0	µg/L	10.00		94.3	70-130	7.59	25		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.00		111	70-130	0.181	25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	5.21	25		
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	1.58	25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	1.20	25		
Dichlorodifluoromethane (Freon 12)	8.92	2.0	µg/L	10.00		89.2	40-160	9.88	25		†
1,1-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130	9.33	25		
1,2-Dichloroethane	9.91	1.0	µg/L	10.00		99.1	70-130	3.49	25		
1,1-Dichloroethylene	10.4	1.0	µg/L	10.00		104	70-130	9.61	25		
cis-1,2-Dichloroethylene	9.68	1.0	µg/L	10.00		96.8	70-130	5.08	25		
trans-1,2-Dichloroethylene	9.39	1.0	µg/L	10.00		93.9	70-130	1.39	25		
1,2-Dichloropropane	10.1	1.0	µg/L	10.00		101	70-130	3.64	25		
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00		108	70-130	6.10	25		
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130	1.07	25		
Diisopropyl Ether (DIPE)	9.42	0.50	µg/L	10.00		94.2	70-130	3.79	25		
Ethanol	94.6	50	µg/L	100.0		94.6	40-160	5.49	25		
Ethylbenzene	11.4	1.0	µg/L	10.00		114	70-130	4.68	25		
2-Hexanone (MBK)	93.8	10	µg/L	100.0		93.8	70-160	1.36	25		†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.00		113	70-130	3.23	25		
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00		104	70-130	5.05	25		
Methyl Acetate	9.16	1.0	µg/L	10.00		91.6	70-130	0.218	25		
Methyl tert-Butyl Ether (MTBE)	9.99	1.0	µg/L	10.00		99.9	70-130	1.72	25		
Methyl Cyclohexane	10.0	1.0	µg/L	10.00		100	70-130	6.19	25		
Methylene Chloride	9.43	5.0	µg/L	10.00		94.3	70-130	1.17	25		
4-Methyl-2-pentanone (MIBK)	99.0	10	µg/L	100.0		99.0	70-160	2.68	25		†
Naphthalene	11.4	2.0	µg/L	10.00		114	40-130	1.15	25		†
n-Propylbenzene	11.4	1.0	µg/L	10.00		114	70-130	8.99	25		
Styrene	11.8	1.0	µg/L	10.00		118	70-130	2.59	25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.00		105	70-130	2.08	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130	3.55	25		
Toluene	11.1	1.0	µg/L	10.00		111	70-130	6.54	25		
1,2,3-Trichlorobenzene	13.1	5.0	µg/L	10.00		**131**	* 70-130	0.920	25	L-07, V-20	
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	0.0876	25		
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130	7.22	25		
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	3.77	25		
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	9.92	25		
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.00		103	70-130	5.89	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130	0.00	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
LCS Dup (B392861-BSD1)				Prepared: 11/21/24 Analyzed: 11/24/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.00		101	70-130	4.03	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130	3.77	25	
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.00		113	70-130	6.29	25	
Vinyl Chloride	10.4	2.0	µg/L	10.00		104	40-160	11.2	25	†
m+p Xylene	22.6	2.0	µg/L	20.00		113	70-130	3.83	25	
o-Xylene	11.4	1.0	µg/L	10.00		114	70-130	3.83	25	
Xylenes (total)	34.0	1.0	µg/L	30.00		113	0-200	3.83		
Surrogate: 1,2-Dichloroethane-d4	*22.3*		µg/L	25.00		89.1	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392861 - SW-846 5030B										
Blank (B392861-BLK1)				Prepared: 11/21/24 Analyzed: 11/24/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C										
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04, V-06
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C											
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	20	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*209*		µg/L	400.0		52.2		15-110			
Surrogate: Phenol-d6	*136*		µg/L	400.0		34.0		15-110			
Surrogate: Nitrobenzene-d5	*165*		µg/L	200.0		82.3		30-130			
Surrogate: 2-Fluorobiphenyl	*151*		µg/L	200.0		75.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*345*		µg/L	400.0		86.3		15-110			
Surrogate: p-Terphenyl-d14	*191*		µg/L	200.0		95.3		30-130			
LCS (B392794-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24							
2,3,4,6-Tetrachlorophenol	98.3	20	µg/L	100.0		98.3		40-140			R-05
Atrazine	107	20	µg/L	100.0		107		40-140			
Benzaldehyde	79.8	10	µg/L	100.0		79.8		40-140			
Biphenyl	75.8	20	µg/L	100.0		75.8		40-140			R-05
Caprolactam	31.6	10	µg/L	100.0		**31.6**	*	40-140			V-06, L-04
Acenaphthene	78.4	5.0	µg/L	100.0		78.4		40-140			R-05
Acenaphthylene	82.4	5.0	µg/L	100.0		82.4		40-140			
Acetophenone	71.2	10	µg/L	100.0		71.2		40-140			
Aniline	64.7	20	µg/L	100.0		64.7		40-140			V-05
Anthracene	89.7	5.0	µg/L	100.0		89.7		40-140			
Benzo(a)anthracene	87.3	5.0	µg/L	100.0		87.3		40-140			
Benzo(a)pyrene	90.6	5.0	µg/L	100.0		90.6		40-140			
Benzo(b)fluoranthene	91.6	5.0	µg/L	100.0		91.6		40-140			
Benzo(g,h,i)perylene	101	5.0	µg/L	100.0		101		40-140			
Benzo(k)fluoranthene	93.3	5.0	µg/L	100.0		93.3		40-140			
Bis(2-chloroethoxy)methane	82.6	10	µg/L	100.0		82.6		40-140			
Bis(2-chloroethyl)ether	73.6	10	µg/L	100.0		73.6		40-140			
2,2'-oxybis(1-Chloropropane)	75.7	10	µg/L	100.0		75.7		40-140			
Bis(2-Ethylhexyl)phthalate	77.2	10	µg/L	100.0		77.2		40-140			
4-Bromophenylphenylether	87.7	10	µg/L	100.0		87.7		40-140			
Butylbenzylphthalate	86.7	10	µg/L	100.0		86.7		40-140			
Carbazole	90.1	10	µg/L	100.0		90.1		40-140			
4-Chloroaniline	78.6	10	µg/L	100.0		78.6		40-140			
4-Chloro-3-methylphenol	79.8	10	µg/L	100.0		79.8		30-130			
2-Chloronaphthalene	71.0	10	µg/L	100.0		71.0		40-140			R-05
2-Chlorophenol	73.7	10	µg/L	100.0		73.7		30-130			R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392794 - SW-846 3510C											
LCS (B392794-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24							
4-Chlorophenylphenylether	83.7	10	µg/L	100.0		83.7	40-140				
Chrysene	87.5	5.0	µg/L	100.0		87.5	40-140				
Dibenz(a,h)anthracene	95.2	5.0	µg/L	100.0		95.2	40-140			V-04	
Dibenzofuran	84.3	5.0	µg/L	100.0		84.3	40-140				
Di-n-butylphthalate	80.0	10	µg/L	100.0		80.0	40-140				
3,3-Dichlorobenzidine	90.6	10	µg/L	100.0		90.6	40-140				
2,4-Dichlorophenol	83.8	10	µg/L	100.0		83.8	30-130			R-05	
Diethylphthalate	80.9	10	µg/L	100.0		80.9	40-140				
2,4-Dimethylphenol	74.2	10	µg/L	100.0		74.2	30-130				
Dimethylphthalate	87.1	10	µg/L	100.0		87.1	40-140				
4,6-Dinitro-2-methylphenol	86.7	20	µg/L	100.0		86.7	30-130			R-05	
2,4-Dinitrophenol	75.7	10	µg/L	100.0		75.7	30-130			V-04, R-05	
2,4-Dinitrotoluene	88.0	10	µg/L	100.0		88.0	40-140				
2,6-Dinitrotoluene	91.3	10	µg/L	100.0		91.3	40-140				
Di-n-octylphthalate	76.4	10	µg/L	100.0		76.4	40-140			V-04	
Fluoranthene	89.6	5.0	µg/L	100.0		89.6	40-140				
Fluorene	87.3	5.0	µg/L	100.0		87.3	40-140				
Hexachlorobenzene	90.8	10	µg/L	100.0		90.8	40-140				
Hexachlorobutadiene	51.2	10	µg/L	100.0		51.2	40-140			R-05	
Hexachlorocyclopentadiene	63.6	10	µg/L	100.0		63.6	30-140				†
Hexachloroethane	43.3	10	µg/L	100.0		43.3	40-140				
Indeno(1,2,3-cd)pyrene	99.2	5.0	µg/L	100.0		99.2	40-140			V-04	
Isophorone	86.9	10	µg/L	100.0		86.9	40-140				
1-Methylnaphthalene	67.8	5.0	µg/L	100.0		67.8	40-140			R-05	
2-Methylnaphthalene	64.1	5.0	µg/L	100.0		64.1	40-140				
2-Methylphenol	68.0	10	µg/L	100.0		68.0	30-130				
3/4-Methylphenol	61.9	10	µg/L	100.0		61.9	30-130				
Naphthalene	70.2	5.0	µg/L	100.0		70.2	40-140				
2-Nitroaniline	94.5	10	µg/L	100.0		94.5	40-140				
3-Nitroaniline	87.5	10	µg/L	100.0		87.5	40-140				
4-Nitroaniline	84.8	10	µg/L	100.0		84.8	40-140				
Nitrobenzene	83.3	10	µg/L	100.0		83.3	40-140				
2-Nitrophenol	82.1	10	µg/L	100.0		82.1	30-130			R-05	
4-Nitrophenol	51.5	10	µg/L	100.0		51.5	10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	87.9	10	µg/L	100.0		87.9	40-140				
N-Nitrosodi-n-propylamine	65.9	10	µg/L	100.0		65.9	40-140				
Pentachlorophenol	79.2	10	µg/L	100.0		79.2	30-130			R-05	
Phenanthrene	87.3	5.0	µg/L	100.0		87.3	40-140				
Phenol	40.0	10	µg/L	100.0		40.0	20-130			R-05	†
Pyrene	95.4	5.0	µg/L	100.0		95.4	40-140				
Pyridine	19.8	20	µg/L	100.0		19.8	10-140			J, V-34	†
1,2,4,5-Tetrachlorobenzene	75.6	10	µg/L	100.0		75.6	40-140			R-05	
2,4,5-Trichlorophenol	92.9	10	µg/L	100.0		92.9	30-130			R-05	
2,4,6-Trichlorophenol	88.6	10	µg/L	100.0		88.6	30-130			R-05	
Surrogate: 2-Fluorophenol	*240*		µg/L	400.0		60.0	15-110				
Surrogate: Phenol-d6	*167*		µg/L	400.0		41.8	15-110				
Surrogate: Nitrobenzene-d5	*184*		µg/L	200.0		91.8	30-130				
Surrogate: 2-Fluorobiphenyl	*169*		µg/L	200.0		84.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*398*		µg/L	400.0		99.4	15-110				
Surrogate: p-Terphenyl-d14	*195*		µg/L	200.0		97.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B392794 - SW-846 3510C													
LCS Dup (B392794-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24									
2,3,4,6-Tetrachlorophenol	57.3	20	µg/L	100.0		57.3		40-140	**52.7**	*	20	R-05	
Atrazine	105	20	µg/L	100.0		105		40-140	1.98		20		
Benzaldehyde	79.9	10	µg/L	100.0		79.9		40-140	0.0626		20		
Biphenyl	61.1	20	µg/L	100.0		61.1		40-140	**21.5**	*	20	R-05	
Caprolactam	31.4	10	µg/L	100.0		**31.4**	*	40-140	0.761		20	L-04, V-06	
Acenaphthene	63.8	5.0	µg/L	100.0		63.8		40-140	**20.5**	*	20	R-05	
Acenaphthylene	70.2	5.0	µg/L	100.0		70.2		40-140	16.0		20		
Acetophenone	69.6	10	µg/L	100.0		69.6		40-140	2.33		20		
Aniline	66.8	20	µg/L	100.0		66.8		40-140	3.13		50	V-05	‡
Anthracene	84.1	5.0	µg/L	100.0		84.1		40-140	6.48		20		
Benzo(a)anthracene	84.9	5.0	µg/L	100.0		84.9		40-140	2.76		20		
Benzo(a)pyrene	87.3	5.0	µg/L	100.0		87.3		40-140	3.63		20		
Benzo(b)fluoranthene	88.0	5.0	µg/L	100.0		88.0		40-140	4.01		20		
Benzo(g,h,i)perylene	98.2	5.0	µg/L	100.0		98.2		40-140	3.22		20		
Benzo(k)fluoranthene	90.5	5.0	µg/L	100.0		90.5		40-140	3.09		20		
Bis(2-chloroethoxy)methane	77.8	10	µg/L	100.0		77.8		40-140	5.90		20		
Bis(2-chloroethyl)ether	74.5	10	µg/L	100.0		74.5		40-140	1.15		20		
2,2'-oxybis(1-Chloropropane)	71.2	10	µg/L	100.0		71.2		40-140	6.10		20		
Bis(2-Ethylhexyl)phthalate	78.3	10	µg/L	100.0		78.3		40-140	1.45		20		
4-Bromophenylphenylether	80.2	10	µg/L	100.0		80.2		40-140	8.95		20		
Butylbenzylphthalate	84.4	10	µg/L	100.0		84.4		40-140	2.65		20		
Carbazole	87.2	10	µg/L	100.0		87.2		40-140	3.29		20		
4-Chloroaniline	77.0	10	µg/L	100.0		77.0		40-140	2.11		20		
4-Chloro-3-methylphenol	70.9	10	µg/L	100.0		70.9		30-130	11.8		20		
2-Chloronaphthalene	52.4	10	µg/L	100.0		52.4		40-140	**30.1**	*	20	R-05	
2-Chlorophenol	53.0	10	µg/L	100.0		53.0		30-130	**32.6**	*	20	R-05	
4-Chlorophenylphenylether	74.5	10	µg/L	100.0		74.5		40-140	11.6		20		
Chrysene	84.6	5.0	µg/L	100.0		84.6		40-140	3.28		20		
Dibenz(a,h)anthracene	96.9	5.0	µg/L	100.0		96.9		40-140	1.81		20	V-04	
Dibenzofuran	72.7	5.0	µg/L	100.0		72.7		40-140	14.8		20		
Di-n-butylphthalate	78.4	10	µg/L	100.0		78.4		40-140	2.03		20		
3,3-Dichlorobenzidine	85.6	10	µg/L	100.0		85.6		40-140	5.76		20		
2,4-Dichlorophenol	57.9	10	µg/L	100.0		57.9		30-130	**36.5**	*	20	R-05	
Diethylphthalate	79.7	10	µg/L	100.0		79.7		40-140	1.47		20		
2,4-Dimethylphenol	71.0	10	µg/L	100.0		71.0		30-130	4.41		20		
Dimethylphthalate	85.0	10	µg/L	100.0		85.0		40-140	2.43		50		‡
4,6-Dinitro-2-methylphenol	51.0	20	µg/L	100.0		51.0		30-130	**51.8**	*	50	R-05	‡
2,4-Dinitrophenol	27.1	10	µg/L	100.0		**27.1**	*	30-130	**94.5**	*	50	L-07A, V-04	‡
2,4-Dinitrotoluene	86.6	10	µg/L	100.0		86.6		40-140	1.50		20		
2,6-Dinitrotoluene	90.1	10	µg/L	100.0		90.1		40-140	1.39		20		
Di-n-octylphthalate	75.8	10	µg/L	100.0		75.8		40-140	0.789		20	V-04	
Fluoranthene	88.9	5.0	µg/L	100.0		88.9		40-140	0.784		20		
Fluorene	75.8	5.0	µg/L	100.0		75.8		40-140	14.1		20		
Hexachlorobenzene	85.7	10	µg/L	100.0		85.7		40-140	5.83		20		
Hexachlorobutadiene	40.4	10	µg/L	100.0		40.4		40-140	**23.6**	*	20	R-05	
Hexachlorocyclopentadiene	47.5	10	µg/L	100.0		47.5		30-140	28.9		50		† ‡
Hexachloroethane	37.0	10	µg/L	100.0		**37.0**	*	40-140	15.5		50	L-07	‡
Indeno(1,2,3-cd)pyrene	99.6	5.0	µg/L	100.0		99.6		40-140	0.412		50	V-04	‡
Isophorone	81.4	10	µg/L	100.0		81.4		40-140	6.56		20		
1-Methylnaphthalene	53.8	5.0	µg/L	100.0		53.8		40-140	**22.9**	*	20	R-05	
2-Methylnaphthalene	53.6	5.0	µg/L	100.0		53.6		40-140	17.9		20		
2-Methylphenol	63.8	10	µg/L	100.0		63.8		30-130	6.37		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B392794 - SW-846 3510C												
LCS Dup (B392794-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24								
3/4-Methylphenol	57.4	10	µg/L	100.0		57.4	30-130	7.59		20		
Naphthalene	59.6	5.0	µg/L	100.0		59.6	40-140	16.4		20		
2-Nitroaniline	88.5	10	µg/L	100.0		88.5	40-140	6.56		20		
3-Nitroaniline	83.5	10	µg/L	100.0		83.5	40-140	4.74		20		
4-Nitroaniline	80.9	10	µg/L	100.0		80.9	40-140	4.66		20		
Nitrobenzene	79.0	10	µg/L	100.0		79.0	40-140	5.34		20		
2-Nitrophenol	50.5	10	µg/L	100.0		50.5	30-130	**47.8**	*	20	R-05	
4-Nitrophenol	24.0	10	µg/L	100.0		24.0	10-130	**72.7**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	81.1	10	µg/L	100.0		81.1	40-140	8.05		20		
N-Nitrosodi-n-propylamine	65.5	10	µg/L	100.0		65.5	40-140	0.624		20		
Pentachlorophenol	43.7	10	µg/L	100.0		43.7	30-130	**57.7**	*	50	R-05	‡
Phenanthrene	83.1	5.0	µg/L	100.0		83.1	40-140	4.88		20		
Phenol	31.2	10	µg/L	100.0		31.2	20-130	**24.7**	*	20	R-05	†
Pyrene	88.2	5.0	µg/L	100.0		88.2	40-140	7.80		20		
Pyridine	20.3	20	µg/L	100.0		20.3	10-140	2.39		50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	54.2	10	µg/L	100.0		54.2	40-140	**33.0**	*	20	R-05	
2,4,5-Trichlorophenol	56.4	10	µg/L	100.0		56.4	30-130	**48.8**	*	20	R-05	
2,4,6-Trichlorophenol	51.4	10	µg/L	100.0		51.4	30-130	**53.1**	*	50	R-05	‡
Surrogate: 2-Fluorophenol	*143*		µg/L	400.0		35.7	15-110					
Surrogate: Phenol-d6	*122*		µg/L	400.0		30.5	15-110					
Surrogate: Nitrobenzene-d5	*165*		µg/L	200.0		82.5	30-130					
Surrogate: 2-Fluorobiphenyl	*151*		µg/L	200.0		75.3	30-130					
Surrogate: 2,4,6-Tribromophenol	*245*		µg/L	400.0		61.3	15-110					
Surrogate: p-Terphenyl-d14	*174*		µg/L	200.0		87.0	30-130					

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392793 - SW-846 3510C										
Blank (B392793-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.68*		µg/L	10.00		26.8	15-110			
LCS (B392793-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
1,4-Dioxane	9.10	0.20	µg/L	10.00		91.0	40-140			
Surrogate: 1,4-Dioxane-d8	*3.08*		µg/L	10.00		30.8	15-110			
LCS Dup (B392793-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
1,4-Dioxane	10.6	0.20	µg/L	10.00		106	40-140	15.0	30	
Surrogate: 1,4-Dioxane-d8	*2.94*		µg/L	10.00		29.4	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393842 - EPA 1633										
Blank (B393842-BLK1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	ND	6.4	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.4	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.4	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.4	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.4	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.4	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.4	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.4	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							V-20
Surrogate: 13C4-PFBA	*85.4*		ng/L	79.43		108	5-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393842 - EPA 1633										
Blank (B393842-BLK1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Surrogate: 13C5-PFPeA	*42.4*		ng/L	39.72		107	40-130			
Surrogate: 13C5-PFHxA	*20.8*		ng/L	19.86		105	40-130			
Surrogate: 13C4-PFHpA	*21.8*		ng/L	19.86		110	40-130			
Surrogate: 13C8-PFOA	*21.0*		ng/L	19.86		106	40-130			
Surrogate: 13C9-PFNA	*11.0*		ng/L	9.929		110	40-130			
Surrogate: 13C6-PFDA	*10.8*		ng/L	9.929		109	40-130			
Surrogate: 13C7-PFUnA	*10.8*		ng/L	9.929		109	30-130			
Surrogate: 13C2-PFDoA	*10.3*		ng/L	9.929		104	10-130			
Surrogate: 13C2-PFTeDA	*9.45*		ng/L	9.929		95.2	10-130			
Surrogate: 13C3-PFBS	*22.7*		ng/L	19.86		115	40-135			
Surrogate: 13C3-PFHxS	*22.2*		ng/L	19.86		112	40-130			
Surrogate: 13C8-PFOS	*22.0*		ng/L	19.86		111	40-130			
Surrogate: 13C2-4:2FTS	*51.0*		ng/L	39.72		128	40-200			
Surrogate: 13C2-6:2FTS	*45.2*		ng/L	39.72		114	40-200			
Surrogate: 13C2-8:2FTS	*43.6*		ng/L	39.72		110	40-300			
Surrogate: 13C8-PFOSA	*17.9*		ng/L	19.86		90.4	40-130			
Surrogate: D3-NMeFOSA	*16.7*		ng/L	19.86		84.1	10-130			
Surrogate: D5-NEtFOSA	*15.5*		ng/L	19.86		77.9	10-130			
Surrogate: D3-NMeFOSAA	*47.7*		ng/L	39.72		120	40-170			
Surrogate: D5-NEtFOSAA	*48.3*		ng/L	39.72		122	25-135			
Surrogate: D7-NMeFOSE	*157*		ng/L	198.6		79.3	10-130			
Surrogate: D9-NEtFOSE	*154*		ng/L	198.6		77.5	10-130			
Surrogate: 13C3-HFPO-DA	*98.3*		ng/L	79.43		124	40-130			
LCS (B393842-BS1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	81.9	6.3	ng/L	79.03		104	70-140			
Perfluoropentanoic acid (PFPeA)	42.0	3.2	ng/L	39.52		106	65-135			
Perfluorohexanoic acid (PFHxA)	20.5	1.6	ng/L	19.76		104	70-145			
Perfluoroheptanoic acid (PFHpA)	19.7	1.6	ng/L	19.76		99.5	70-150			
Perfluorooctanoic acid (PFOA)	20.4	1.6	ng/L	19.76		103	70-150			
Perfluorononanoic acid (PFNA)	20.6	1.6	ng/L	19.76		104	70-150			
Perfluorodecanoic acid (PFDA)	21.3	1.6	ng/L	19.76		108	70-140			
Perfluoroundecanoic acid (PFUnA)	21.6	1.6	ng/L	19.76		109	70-145			
Perfluorododecanoic acid (PFDoA)	19.9	1.6	ng/L	19.76		101	70-140			
Perfluorotridecanoic acid (PFTrDA)	20.4	1.6	ng/L	19.76		103	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.6	1.6	ng/L	19.76		104	60-140			
Perfluorobutanesulfonic acid (PFBS)	18.4	1.6	ng/L	17.55		105	60-145			
Perfluoropentanesulfonic acid (PFPeS)	20.5	1.6	ng/L	18.57		111	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.1	1.6	ng/L	18.02		100	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	21.3	1.6	ng/L	18.81		113	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.7	1.6	ng/L	18.34		102	55-150			
Perfluorononanesulfonic acid (PFNS)	19.9	1.6	ng/L	18.97		105	65-145			
Perfluorodecanesulfonic acid (PFDS)	18.8	1.6	ng/L	19.05		98.4	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.2	1.6	ng/L	19.13		84.5	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.7	6.3	ng/L	74.05		109	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.3	6.3	ng/L	75.16		119	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8	6.3	ng/L	75.87		117	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.1	1.6	ng/L	19.76		96.7	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	20.2	1.6	ng/L	19.76		102	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393842 - EPA 1633										
LCS (B393842-BS1)				Prepared: 12/08/24 Analyzed: 12/09/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.2	1.6	ng/L	19.76		97.4	65-145			
N-MeFOSAA (NMeFOSAA)	23.0	1.6	ng/L	19.76		117	50-140			
N-EtFOSAA (NEtFOSAA)	20.1	1.6	ng/L	19.76		102	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	205	16	ng/L	197.6		104	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	207	16	ng/L	197.6		105	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.3	6.3	ng/L	79.03		104	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	73.2	6.3	ng/L	74.69		98.0	65-145			
9Cl-PF3ONS (F53B Minor)	78.5	6.3	ng/L	73.74		106	70-155			
11Cl-PF3OUdS (F53B Major)	75.2	6.3	ng/L	73.82		102	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	84.3	7.9	ng/L	98.79		85.3	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	451	40	ng/L	494.0		91.3	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	453	40	ng/L	494.0		91.6	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	37.8	3.2	ng/L	35.25		107	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	38.4	3.2	ng/L	39.52		97.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.7	3.2	ng/L	39.52		106	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.4	3.2	ng/L	39.52		125	50-150			
Surrogate: 13C4-PFBA	*74.1*		ng/L	79.03		93.7	5-130			
Surrogate: 13C5-PFPeA	*35.8*		ng/L	39.52		90.6	40-130			
Surrogate: 13C5-PFHxA	*18.2*		ng/L	19.76		92.0	40-130			
Surrogate: 13C4-PFHpA	*18.1*		ng/L	19.76		91.8	40-130			
Surrogate: 13C8-PFOA	*17.9*		ng/L	19.76		90.7	40-130			
Surrogate: 13C9-PFNA	*9.11*		ng/L	9.879		92.2	40-130			
Surrogate: 13C6-PFDA	*9.25*		ng/L	9.879		93.6	40-130			
Surrogate: 13C7-PFUnA	*8.97*		ng/L	9.879		90.8	30-130			
Surrogate: 13C2-PFDoA	*8.50*		ng/L	9.879		86.0	10-130			
Surrogate: 13C2-PFTeDA	*7.75*		ng/L	9.879		78.5	10-130			
Surrogate: 13C3-PFBS	*18.5*		ng/L	19.76		93.8	40-135			
Surrogate: 13C3-PFHxS	*18.3*		ng/L	19.76		92.5	40-130			
Surrogate: 13C8-PFOS	*17.2*		ng/L	19.76		87.0	40-130			
Surrogate: 13C2-4:2FTS	*42.9*		ng/L	39.52		109	40-200			
Surrogate: 13C2-6:2FTS	*35.7*		ng/L	39.52		90.5	40-200			
Surrogate: 13C2-8:2FTS	*33.2*		ng/L	39.52		84.0	40-300			
Surrogate: 13C8-PFOSA	*15.9*		ng/L	19.76		80.5	40-130			
Surrogate: D3-NMeFOSA	*11.4*		ng/L	19.76		57.5	10-130			
Surrogate: D5-NEtFOSA	*12.0*		ng/L	19.76		60.7	10-130			
Surrogate: D3-NMeFOSAA	*38.9*		ng/L	39.52		98.6	40-170			
Surrogate: D5-NEtFOSAA	*39.3*		ng/L	39.52		99.5	25-135			
Surrogate: D7-NMeFOSE	*137*		ng/L	197.6		69.2	10-130			
Surrogate: D9-NEtFOSE	*133*		ng/L	197.6		67.3	10-130			
Surrogate: 13C3-HFPO-DA	*83.4*		ng/L	79.03		106	40-130			
MRL Check (B393842-MRL1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Perfluorobutanoic acid (PFBA)	6.23	6.3	ng/L	6.275		99.3	70-140			J
Perfluoropentanoic acid (PFPeA)	3.10	3.1	ng/L	3.138		98.7	65-135			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393842 - EPA 1633										
MRL Check (B393842-MRL1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Perfluorohexanoic acid (PFHxA)	1.49	1.6	ng/L	1.569		94.9	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.43	1.6	ng/L	1.569		91.1	70-150			J
Perfluorooctanoic acid (PFOA)	1.57	1.6	ng/L	1.569		100	70-150			
Perfluorononanoic acid (PFNA)	1.48	1.6	ng/L	1.569		94.3	70-150			J
Perfluorodecanoic acid (PFDA)	1.62	1.6	ng/L	1.569		103	70-140			
Perfluoroundecanoic acid (PFUnA)	1.69	1.6	ng/L	1.569		107	70-145			
Perfluorododecanoic acid (PFDoA)	1.64	1.6	ng/L	1.569		105	70-140			
Perfluorotridecanoic acid (PFTrDA)	1.48	1.6	ng/L	1.569		94.5	65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.39	1.6	ng/L	1.569		88.9	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.36	1.6	ng/L	1.393		97.8	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.49	1.6	ng/L	1.475		101	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.44	1.6	ng/L	1.431		100	65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.50	1.6	ng/L	1.494		100	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.45	1.6	ng/L	1.456		99.8	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.41	1.6	ng/L	1.506		93.6	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.37	1.6	ng/L	1.512		90.6	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.23	1.6	ng/L	1.519		81.2	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.17	6.3	ng/L	5.880		87.9	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.76	6.3	ng/L	5.968		96.5	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.68	6.3	ng/L	6.024		111	60-150			
Perfluorooctanesulfonamide (PFOSA)	1.75	1.6	ng/L	1.569		111	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.54	1.6	ng/L	1.569		98.0	60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.38	1.6	ng/L	1.569		87.9	65-145			J
N-MeFOSAA (NMeFOSAA)	1.45	1.6	ng/L	1.569		92.2	50-140			J
N-EtFOSAA (NEtFOSAA)	1.33	1.6	ng/L	1.569		84.9	70-145			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	15.4	16	ng/L	15.69		97.9	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	15.1	16	ng/L	15.69		96.6	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.46	6.3	ng/L	6.275		103	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.89	6.3	ng/L	5.930		99.3	65-145			J
9Cl-PF3ONS (F53B Minor)	5.91	6.3	ng/L	5.855		101	70-155			J
11Cl-PF3OUdS (F53B Major)	5.37	6.3	ng/L	5.918		90.7	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	6.59	7.8	ng/L	7.844		84.0	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	32.6	39	ng/L	39.22		83.1	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	31.6	39	ng/L	39.22		80.7	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.72	3.1	ng/L	2.799		97.0	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.99	3.1	ng/L	3.138		95.2	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.17	3.1	ng/L	3.138		101	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.89	3.1	ng/L	3.138		124	50-150			V-06
Surrogate: 13C4-PFBA	*73.4*		ng/L	78.44		93.6	5-130			
Surrogate: 13C5-PFPeA	*36.6*		ng/L	39.22		93.3	40-130			
Surrogate: 13C5-PFHxA	*18.5*		ng/L	19.61		94.1	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393842 - EPA 1633										
MRL Check (B393842-MRL1)				Prepared: 12/08/24 Analyzed: 12/09/24						
Surrogate: 13C4-PFHpA	*18.5*		ng/L	19.61		94.3	40-130			
Surrogate: 13C8-PFOA	*17.5*		ng/L	19.61		89.1	40-130			
Surrogate: 13C9-PFNA	*9.32*		ng/L	9.805		95.1	40-130			
Surrogate: 13C6-PFDA	*9.27*		ng/L	9.805		94.6	40-130			
Surrogate: 13C7-PFUnA	*8.37*		ng/L	9.805		85.4	30-130			
Surrogate: 13C2-PFDoA	*7.93*		ng/L	9.805		80.8	10-130			
Surrogate: 13C2-PFTeDA	*7.22*		ng/L	9.805		73.6	10-130			
Surrogate: 13C3-PFBS	*18.6*		ng/L	19.61		95.0	40-135			
Surrogate: 13C3-PFHxS	*18.0*		ng/L	19.61		91.9	40-130			
Surrogate: 13C8-PFOS	*16.8*		ng/L	19.61		85.8	40-130			
Surrogate: 13C2-4:2FTS	*44.7*		ng/L	39.22		114	40-200			
Surrogate: 13C2-6:2FTS	*38.7*		ng/L	39.22		98.7	40-200			
Surrogate: 13C2-8:2FTS	*35.8*		ng/L	39.22		91.2	40-300			
Surrogate: 13C8-PFOSA	*14.6*		ng/L	19.61		74.6	40-130			
Surrogate: D3-NMeFOSA	*13.0*		ng/L	19.61		66.5	10-130			
Surrogate: D5-NEtFOSA	*13.3*		ng/L	19.61		67.8	10-130			
Surrogate: D3-NMeFOSAA	*38.5*		ng/L	39.22		98.2	40-170			
Surrogate: D5-NEtFOSAA	*39.0*		ng/L	39.22		99.5	25-135			
Surrogate: D7-NMeFOSE	*133*		ng/L	196.1		67.9	10-130			
Surrogate: D9-NEtFOSE	*130*		ng/L	196.1		66.4	10-130			
Surrogate: 13C3-HFPO-DA	*84.0*		ng/L	78.44		107	40-130			
Batch B393957 - EPA 1633										
Blank (B393957-BLK1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393957 - EPA 1633										
Blank (B393957-BLK1)				Prepared: 12/09/24 Analyzed: 12/11/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*78.4*		ng/L	78.46		99.9	5-130			
Surrogate: 13C5-PFPeA	*37.5*		ng/L	39.23		95.5	40-130			
Surrogate: 13C5-PFHxA	*18.8*		ng/L	19.61		95.7	40-130			
Surrogate: 13C4-PFHpA	*18.3*		ng/L	19.61		93.4	40-130			
Surrogate: 13C8-PFOA	*20.6*		ng/L	19.61		105	40-130			
Surrogate: 13C9-PFNA	*9.50*		ng/L	9.807		96.8	40-130			
Surrogate: 13C6-PFDA	*10.6*		ng/L	9.807		108	40-130			
Surrogate: 13C7-PFUnA	*10.4*		ng/L	9.807		106	30-130			
Surrogate: 13C2-PFDoA	*9.32*		ng/L	9.807		95.0	10-130			
Surrogate: 13C2-PFTeDA	*8.52*		ng/L	9.807		86.9	10-130			
Surrogate: 13C3-PFBS	*20.1*		ng/L	19.61		103	40-135			
Surrogate: 13C3-PFHxS	*19.6*		ng/L	19.61		99.9	40-130			
Surrogate: 13C8-PFOS	*19.9*		ng/L	19.61		102	40-130			
Surrogate: 13C2-4:2FTS	*47.9*		ng/L	39.23		122	40-200			
Surrogate: 13C2-6:2FTS	*44.1*		ng/L	39.23		112	40-200			
Surrogate: 13C2-8:2FTS	*39.5*		ng/L	39.23		101	40-300			
Surrogate: 13C8-PFOSA	*16.1*		ng/L	19.61		82.1	40-130			
Surrogate: D3-NMeFOSA	*12.1*		ng/L	19.61		61.4	10-130			
Surrogate: D5-NEtFOSA	*10.7*		ng/L	19.61		54.6	10-130			
Surrogate: D3-NMeFOSAA	*42.4*		ng/L	39.23		108	40-170			
Surrogate: D5-NEtFOSAA	*44.4*		ng/L	39.23		113	25-135			
Surrogate: D7-NMeFOSE	*144*		ng/L	196.1		73.5	10-130			
Surrogate: D9-NEtFOSE	*140*		ng/L	196.1		71.5	10-130			
Surrogate: 13C3-HFPO-DA	*79.8*		ng/L	78.46		102	40-130			
LCS (B393957-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	87.6	6.3	ng/L	79.05		111	70-140			
Perfluoropentanoic acid (PFPeA)	46.1	3.2	ng/L	39.52		117	65-135			

Pace Analytical Services, LLC - East Longmeadow, Ma

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393957 - EPA 1633										
LCS (B393957-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorohexanoic acid (PFHxA)	22.8	1.6	ng/L	19.76		115	70-145			
Perfluoroheptanoic acid (PFHpA)	20.3	1.6	ng/L	19.76		103	70-150			
Perfluorooctanoic acid (PFOA)	21.6	1.6	ng/L	19.76		109	70-150			
Perfluorononanoic acid (PFNA)	21.5	1.6	ng/L	19.76		109	70-150			
Perfluorodecanoic acid (PFDA)	22.0	1.6	ng/L	19.76		111	70-140			
Perfluoroundecanoic acid (PFUnA)	21.7	1.6	ng/L	19.76		110	70-145			
Perfluorododecanoic acid (PFDoA)	21.6	1.6	ng/L	19.76		109	70-140			
Perfluorotridecanoic acid (PFTrDA)	21.9	1.6	ng/L	19.76		111	65-140			
Perfluorotetradecanoic acid (PFTeDA)	23.0	1.6	ng/L	19.76		116	60-140			
Perfluorobutanesulfonic acid (PFBS)	19.4	1.6	ng/L	17.55		111	60-145			
Perfluoropentanesulfonic acid (PFPeS)	21.1	1.6	ng/L	18.58		113	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.0	1.6	ng/L	18.02		99.8	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	20.7	1.6	ng/L	18.81		110	70-150			
Perfluorooctanesulfonic acid (PFOS)	19.4	1.6	ng/L	18.34		106	55-150			
Perfluorononanesulfonic acid (PFNS)	20.2	1.6	ng/L	18.97		106	65-145			
Perfluorodecanesulfonic acid (PFDS)	19.4	1.6	ng/L	19.05		102	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.9	1.6	ng/L	19.13		88.3	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.1	6.3	ng/L	74.07		123	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.0	6.3	ng/L	75.18		122	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2	6.3	ng/L	75.89		128	60-150			
Perfluorooctanesulfonamide (PFOSA)	20.3	1.6	ng/L	19.76		103	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	21.7	1.6	ng/L	19.76		110	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.4	1.6	ng/L	19.76		113	65-145			
N-MeFOSAA (NMeFOSAA)	19.0	1.6	ng/L	19.76		96.1	50-140			
N-EtFOSAA (NEtFOSAA)	18.8	1.6	ng/L	19.76		95.0	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	217	16	ng/L	197.6		110	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	219	16	ng/L	197.6		111	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.5	6.3	ng/L	79.05		111	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	79.8	6.3	ng/L	74.70		107	65-145			
9Cl-PF3ONS (F53B Minor)	80.9	6.3	ng/L	73.75		110	70-155			
11Cl-PF3OUdS (F53B Major)	80.6	6.3	ng/L	73.83		109	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	97.7	7.9	ng/L	98.81		98.9	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	551	40	ng/L	494.1		112	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	517	40	ng/L	494.1		105	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	39.9	3.2	ng/L	35.26		113	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.9	3.2	ng/L	39.52		101	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	45.9	3.2	ng/L	39.52		116	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	45.6	3.2	ng/L	39.52		115	50-150			
Surrogate: 13C4-PFBA	*66.8*		ng/L	79.05		84.4	5-130			
Surrogate: 13C5-PFPeA	*32.4*		ng/L	39.52		81.9	40-130			
Surrogate: 13C5-PFHxA	*16.8*		ng/L	19.76		84.9	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393957 - EPA 1633										
LCS (B393957-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Surrogate: 13C4-PFHpA	*16.9*		ng/L	19.76		85.4	40-130			
Surrogate: 13C8-PFOA	*18.0*		ng/L	19.76		91.3	40-130			
Surrogate: 13C9-PFNA	*8.48*		ng/L	9.881		85.8	40-130			
Surrogate: 13C6-PFDA	*8.59*		ng/L	9.881		86.9	40-130			
Surrogate: 13C7-PFUnA	*8.50*		ng/L	9.881		86.1	30-130			
Surrogate: 13C2-PFDoA	*7.74*		ng/L	9.881		78.4	10-130			
Surrogate: 13C2-PFTeDA	*6.68*		ng/L	9.881		67.6	10-130			
Surrogate: 13C3-PFBS	*16.3*		ng/L	19.76		82.2	40-135			
Surrogate: 13C3-PFHxS	*16.9*		ng/L	19.76		85.5	40-130			
Surrogate: 13C8-PFOS	*16.5*		ng/L	19.76		83.3	40-130			
Surrogate: 13C2-4:2FTS	*36.9*		ng/L	39.52		93.3	40-200			
Surrogate: 13C2-6:2FTS	*35.1*		ng/L	39.52		88.8	40-200			
Surrogate: 13C2-8:2FTS	*32.8*		ng/L	39.52		83.1	40-300			
Surrogate: 13C8-PFOSA	*14.1*		ng/L	19.76		71.1	40-130			
Surrogate: D3-NMeFOSA	*8.95*		ng/L	19.76		45.3	10-130			
Surrogate: D5-NEtFOSA	*8.66*		ng/L	19.76		43.8	10-130			
Surrogate: D3-NMeFOSAA	*37.8*		ng/L	39.52		95.6	40-170			
Surrogate: D5-NEtFOSAA	*37.7*		ng/L	39.52		95.4	25-135			
Surrogate: D7-NMeFOSE	*114*		ng/L	197.6		57.9	10-130			
Surrogate: D9-NEtFOSE	*107*		ng/L	197.6		54.0	10-130			
Surrogate: 13C3-HFPO-DA	*74.6*		ng/L	79.05		94.4	40-130			
MRL Check (B393957-MRL1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	6.70	6.3	ng/L	6.326		106	70-140			
Perfluoropentanoic acid (PFPeA)	3.24	3.2	ng/L	3.163		102	65-135			
Perfluorohexanoic acid (PFHxA)	1.72	1.6	ng/L	1.581		109	70-145			
Perfluoroheptanoic acid (PFHpA)	1.54	1.6	ng/L	1.581		97.3	70-150			J
Perfluorooctanoic acid (PFOA)	1.62	1.6	ng/L	1.581		102	70-150			
Perfluorononanoic acid (PFNA)	1.58	1.6	ng/L	1.581		99.7	70-150			J
Perfluorodecanoic acid (PFDA)	1.63	1.6	ng/L	1.581		103	70-140			
Perfluoroundecanoic acid (PFUnA)	1.54	1.6	ng/L	1.581		97.3	70-145			J
Perfluorododecanoic acid (PFDoA)	1.52	1.6	ng/L	1.581		96.4	70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.42	1.6	ng/L	1.581		89.9	65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.66	1.6	ng/L	1.581		105	60-140			
Perfluorobutanesulfonic acid (PFBS)	1.44	1.6	ng/L	1.404		102	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.60	1.6	ng/L	1.487		108	65-140			
Perfluorohexanesulfonic acid (PFHxS)	1.59	1.6	ng/L	1.442		110	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	1.58	1.6	ng/L	1.506		105	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.60	1.6	ng/L	1.468		109	55-150			
Perfluorononanesulfonic acid (PFNS)	1.48	1.6	ng/L	1.518		97.7	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.49	1.6	ng/L	1.525		97.6	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.51	1.6	ng/L	1.531		98.6	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.21	6.3	ng/L	5.927		105	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.67	6.3	ng/L	6.016		111	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.35	6.3	ng/L	6.073		121	60-150			
Perfluorooctanesulfonamide (PFOSA)	1.61	1.6	ng/L	1.581		102	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.63	1.6	ng/L	1.581		103	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.95	1.6	ng/L	1.581		123	65-145			
N-MeFOSAA (NMeFOSAA)	1.64	1.6	ng/L	1.581		104	50-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393957 - EPA 1633										
MRL Check (B393957-MRL1)				Prepared: 12/09/24 Analyzed: 12/11/24						
N-EtFOSAA (NEtFOSAA)	1.45	1.6	ng/L	1.581		91.6	70-145			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	15.9	16	ng/L	15.81		101	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	15.4	16	ng/L	15.81		97.2	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.04	6.3	ng/L	6.326		111	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.32	6.3	ng/L	5.978		106	65-145			J
9Cl-PF3ONS (F53B Minor)	6.47	6.3	ng/L	5.902		110	70-155			
11Cl-PF3OUdS (F53B Major)	5.96	6.3	ng/L	5.965		99.8	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	7.47	7.9	ng/L	7.907		94.5	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	39.3	40	ng/L	39.54		99.3	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	36.5	40	ng/L	39.54		92.3	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.83	3.2	ng/L	2.821		100	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.11	3.2	ng/L	3.163		98.4	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.46	3.2	ng/L	3.163		109	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.23	3.2	ng/L	3.163		102	50-150			
Surrogate: 13C4-PFBA	*68.5*		ng/L	79.07		86.6	5-130			
Surrogate: 13C5-PFPeA	*32.8*		ng/L	39.54		83.0	40-130			
Surrogate: 13C5-PFHxA	*16.9*		ng/L	19.77		85.4	40-130			
Surrogate: 13C4-PFHpA	*16.8*		ng/L	19.77		85.2	40-130			
Surrogate: 13C8-PFOA	*17.4*		ng/L	19.77		88.2	40-130			
Surrogate: 13C9-PFNA	*8.31*		ng/L	9.884		84.1	40-130			
Surrogate: 13C6-PFDA	*8.37*		ng/L	9.884		84.7	40-130			
Surrogate: 13C7-PFUnA	*7.83*		ng/L	9.884		79.2	30-130			
Surrogate: 13C2-PFDoA	*7.49*		ng/L	9.884		75.8	10-130			
Surrogate: 13C2-PFTeDA	*6.62*		ng/L	9.884		67.0	10-130			
Surrogate: 13C3-PFBS	*17.2*		ng/L	19.77		87.0	40-135			
Surrogate: 13C3-PFHxS	*16.3*		ng/L	19.77		82.5	40-130			
Surrogate: 13C8-PFOS	*15.0*		ng/L	19.77		75.9	40-130			
Surrogate: 13C2-4:2FTS	*40.3*		ng/L	39.54		102	40-200			
Surrogate: 13C2-6:2FTS	*34.9*		ng/L	39.54		88.3	40-200			
Surrogate: 13C2-8:2FTS	*34.8*		ng/L	39.54		87.9	40-300			
Surrogate: 13C8-PFOSA	*15.0*		ng/L	19.77		75.7	40-130			
Surrogate: D3-NMeFOSA	*11.1*		ng/L	19.77		55.9	10-130			
Surrogate: D5-NEtFOSA	*11.1*		ng/L	19.77		56.0	10-130			
Surrogate: D3-NMeFOSAA	*34.7*		ng/L	39.54		87.9	40-170			
Surrogate: D5-NEtFOSAA	*36.6*		ng/L	39.54		92.6	25-135			
Surrogate: D7-NMeFOSE	*133*		ng/L	197.7		67.2	10-130			
Surrogate: D9-NEtFOSE	*133*		ng/L	197.7		67.3	10-130			
Surrogate: 13C3-HFPO-DA	*72.4*		ng/L	79.07		91.6	40-130			

Pace Analytical Services, LLC - East Longmeadow, Ma

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392794 - SW-846 3510C										
Blank (B392794-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
Blank (B392781-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*2.94*		µg/L	4.000		73.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.90*		µg/L	4.000		72.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.61*		µg/L	4.000		65.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.77*		µg/L	4.000		69.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
LCS (B392781-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	1.5	0.050	µg/L	2.000		77.2	0-200			
alpha-Chlordane [2C]	1.6	0.050	µg/L	2.000		81.5	0-200			
gamma-Chlordane	1.5	0.050	µg/L	2.000		76.1	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		82.7	0-200			
Aldrin	1.3	0.050	µg/L	2.000		67.3	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.000		73.8	40-140			
alpha-BHC	1.7	0.050	µg/L	2.000		82.6	40-140			
alpha-BHC [2C]	1.8	0.050	µg/L	2.000		89.5	40-140			
beta-BHC	1.6	0.050	µg/L	2.000		82.3	40-140			
beta-BHC [2C]	1.8	0.050	µg/L	2.000		88.9	40-140			
delta-BHC	1.5	0.050	µg/L	2.000		72.8	40-140			
delta-BHC [2C]	1.5	0.050	µg/L	2.000		76.6	40-140			
gamma-BHC (Lindane)	1.6	0.030	µg/L	2.000		78.0	40-140			
gamma-BHC (Lindane) [2C]	1.7	0.030	µg/L	2.000		85.5	40-140			
4,4'-DDD	1.6	0.040	µg/L	2.000		80.8	40-140			
4,4'-DDD [2C]	1.7	0.040	µg/L	2.000		84.1	40-140			
4,4'-DDE	1.6	0.040	µg/L	2.000		79.3	40-140			
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		85.4	40-140			
4,4'-DDT	1.5	0.040	µg/L	2.000		76.1	40-140			
4,4'-DDT [2C]	1.6	0.040	µg/L	2.000		81.6	40-140			
Dieldrin	1.6	0.0020	µg/L	2.000		78.3	40-140			
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		85.1	40-140			
Endosulfan I	1.5	0.050	µg/L	2.000		76.7	40-140			
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		83.3	40-140			
Endosulfan II	1.6	0.080	µg/L	2.000		78.9	40-140			
Endosulfan II [2C]	1.7	0.080	µg/L	2.000		83.9	40-140			
Endosulfan Sulfate	1.5	0.080	µg/L	2.000		74.9	40-140			
Endosulfan Sulfate [2C]	1.6	0.080	µg/L	2.000		79.2	40-140			
Endrin	1.6	0.080	µg/L	2.000		82.1	40-140			
Endrin [2C]	1.7	0.080	µg/L	2.000		87.1	40-140			
Endrin Aldehyde	1.4	0.080	µg/L	2.000		69.1	40-140			
Endrin Aldehyde [2C]	1.5	0.080	µg/L	2.000		72.7	40-140			
Endrin Ketone	1.5	0.080	µg/L	2.000		74.9	40-140			
Endrin Ketone [2C]	1.5	0.080	µg/L	2.000		77.1	40-140			
Heptachlor	1.5	0.050	µg/L	2.000		72.7	40-140			
Heptachlor [2C]	1.6	0.050	µg/L	2.000		78.2	40-140			
Heptachlor Epoxide	1.5	0.050	µg/L	2.000		77.3	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		83.2	40-140			
Methoxychlor	1.5	0.50	µg/L	2.000		75.2	40-140			
Methoxychlor [2C]	1.4	0.50	µg/L	2.000		71.1	40-140			
Surrogate: Decachlorobiphenyl	*3.07*		µg/L	4.000		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.00*		µg/L	4.000		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.61*		µg/L	4.000		65.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.74*		µg/L	4.000		68.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392781 - SW-846 3510C										
LCS Dup (B392781-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
alpha-Chlordane	1.8	0.050	µg/L	2.000		89.8	0-200	15.0		
alpha-Chlordane [2C]	1.9	0.050	µg/L	2.000		94.7	0-200	14.9		
gamma-Chlordane	1.8	0.050	µg/L	2.000		88.7	0-200	15.3		
gamma-Chlordane [2C]	1.9	0.050	µg/L	2.000		96.3	0-200	15.2		
Aldrin	1.6	0.050	µg/L	2.000		81.4	40-140	19.0	20	
Aldrin [2C]	1.8	0.050	µg/L	2.000		88.8	40-140	18.4	20	
alpha-BHC	1.9	0.050	µg/L	2.000		94.0	40-140	13.0	20	
alpha-BHC [2C]	2.0	0.050	µg/L	2.000		101	40-140	11.9	20	
beta-BHC	1.9	0.050	µg/L	2.000		94.4	40-140	13.7	20	
beta-BHC [2C]	2.0	0.050	µg/L	2.000		102	40-140	14.1	20	
delta-BHC	1.7	0.050	µg/L	2.000		85.0	40-140	15.6	20	
delta-BHC [2C]	1.8	0.050	µg/L	2.000		89.6	40-140	15.7	20	
gamma-BHC (Lindane)	1.8	0.030	µg/L	2.000		89.3	40-140	13.5	20	
gamma-BHC (Lindane) [2C]	1.9	0.030	µg/L	2.000		96.9	40-140	12.5	20	
4,4'-DDD	1.9	0.040	µg/L	2.000		94.1	40-140	15.2	20	
4,4'-DDD [2C]	2.0	0.040	µg/L	2.000		97.9	40-140	15.2	20	
4,4'-DDE	1.9	0.040	µg/L	2.000		92.8	40-140	15.7	20	
4,4'-DDE [2C]	2.0	0.040	µg/L	2.000		99.5	40-140	15.2	20	
4,4'-DDT	1.8	0.040	µg/L	2.000		89.7	40-140	16.4	20	
4,4'-DDT [2C]	1.9	0.040	µg/L	2.000		96.2	40-140	16.4	20	
Dieldrin	1.8	0.0020	µg/L	2.000		90.8	40-140	14.8	20	
Dieldrin [2C]	2.0	0.0020	µg/L	2.000		98.5	40-140	14.6	20	
Endosulfan I	1.8	0.050	µg/L	2.000		88.5	40-140	14.3	20	
Endosulfan I [2C]	1.9	0.050	µg/L	2.000		96.2	40-140	14.3	20	
Endosulfan II	1.8	0.080	µg/L	2.000		92.2	40-140	15.5	20	
Endosulfan II [2C]	2.0	0.080	µg/L	2.000		99.0	40-140	16.5	20	
Endosulfan Sulfate	1.8	0.080	µg/L	2.000		88.5	40-140	16.6	20	
Endosulfan Sulfate [2C]	1.9	0.080	µg/L	2.000		93.6	40-140	16.7	20	
Endrin	1.9	0.080	µg/L	2.000		95.5	40-140	15.0	20	
Endrin [2C]	2.0	0.080	µg/L	2.000		101	40-140	14.8	20	
Endrin Aldehyde	1.6	0.080	µg/L	2.000		81.9	40-140	17.0	20	
Endrin Aldehyde [2C]	1.7	0.080	µg/L	2.000		86.4	40-140	17.1	20	
Endrin Ketone	1.8	0.080	µg/L	2.000		88.1	40-140	16.2	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.000		90.7	40-140	16.3	20	
Heptachlor	1.7	0.050	µg/L	2.000		87.0	40-140	18.0	20	
Heptachlor [2C]	1.9	0.050	µg/L	2.000		92.8	40-140	17.1	20	
Heptachlor Epoxide	1.8	0.050	µg/L	2.000		89.3	40-140	14.4	20	
Heptachlor Epoxide [2C]	1.9	0.050	µg/L	2.000		95.8	40-140	14.0	20	
Methoxychlor	1.8	0.50	µg/L	2.000		88.9	40-140	16.7	20	
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		84.2	40-140	16.8	20	
Surrogate: Decachlorobiphenyl	*3.40*		µg/L	4.000		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	4.000		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.98*		µg/L	4.000		74.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.13*		µg/L	4.000		78.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392782 - SW-846 3510C										
Blank (B392782-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.43*		µg/L	4.000		60.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.77*		µg/L	4.000		69.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.42*		µg/L	4.000		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.16*		µg/L	4.000		54.1	30-150			
LCS (B392782-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.88	0.20	µg/L	1.000		88.3	40-140			
Aroclor-1016 [2C]	0.96	0.20	µg/L	1.000		96.2	40-140			
Aroclor-1260	0.89	0.20	µg/L	1.000		89.1	40-140			
Aroclor-1260 [2C]	1.0	0.20	µg/L	1.000		105	40-140			
Surrogate: Decachlorobiphenyl	*2.31*		µg/L	4.000		57.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.61*		µg/L	4.000		65.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.00*		µg/L	4.000		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.99*		µg/L	4.000		74.6	30-150			
LCS Dup (B392782-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Aroclor-1016	0.78	0.20	µg/L	1.000		78.5	40-140	11.7	20	
Aroclor-1016 [2C]	0.87	0.20	µg/L	1.000		87.3	40-140	9.69	20	
Aroclor-1260	0.81	0.20	µg/L	1.000		81.0	40-140	9.48	20	
Aroclor-1260 [2C]	0.96	0.20	µg/L	1.000		95.6	40-140	9.22	20	
Surrogate: Decachlorobiphenyl	*1.43*		µg/L	4.000		35.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.64*		µg/L	4.000		41.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.24*		µg/L	4.000		55.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.26*		µg/L	4.000		56.4	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393825 - SW-846 7470A Prep										
Blank (B393825-BLK1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	ND	0.00020	mg/L							
LCS (B393825-BS1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00347	0.00020	mg/L	0.004020		86.4	80-120			
LCS Dup (B393825-BSD1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00362	0.00020	mg/L	0.004020		90.2	80-120	4.23	20	
Batch B394526 - SW-846 3005A										
Blank (B394526-BLK1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B394526-BLK2)				Prepared: 12/13/24 Analyzed: 12/17/24						
Nickel	ND	0.010	mg/L							
Blank (B394526-BLK3)				Prepared: 12/13/24 Analyzed: 12/17/24						
Copper	ND	0.010	mg/L							
Lead	0.0060	0.010	mg/L							J, B
Selenium	ND	0.050	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B394526-BS1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	0.494	0.050	mg/L	0.5000		98.8	80-120			
Antimony	0.524	0.050	mg/L	0.5000		105	80-120			
Arsenic	0.487	0.010	mg/L	0.5000		97.4	80-120			
Barium	0.512	0.050	mg/L	0.5000		102	80-120			
Beryllium	0.503	0.0040	mg/L	0.5000		101	80-120			
Cadmium	0.528	0.0040	mg/L	0.5000		106	80-120			
Calcium	3.96	0.50	mg/L	4.000		99.1	80-120			
Chromium	0.520	0.010	mg/L	0.5000		104	80-120			
Cobalt	0.524	0.010	mg/L	0.5000		105	80-120			
Iron	4.02	0.050	mg/L	4.000		101	80-120			
Lead	0.512	0.010	mg/L	0.5000		102	80-120			
Magnesium	3.88	0.050	mg/L	4.000		97.0	80-120			
Manganese	0.507	0.010	mg/L	0.5000		101	80-120			
Potassium	3.89	2.0	mg/L	4.000		97.2	80-120			
Silver	0.546	0.010	mg/L	0.5000		109	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394526 - SW-846 3005A										
LCS (B394526-BS1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Sodium	4.01	2.0	mg/L	4.000		100	80-120			
Thallium	0.525	0.050	mg/L	0.5000		105	80-120			
Vanadium	0.534	0.010	mg/L	0.5000		107	80-120			
LCS (B394526-BS2)				Prepared: 12/13/24 Analyzed: 12/17/24						
Nickel	0.534	0.010	mg/L	0.5000		107	80-120			
LCS (B394526-BS3)				Prepared: 12/13/24 Analyzed: 12/17/24						
Copper	1.03	0.010	mg/L	1.000		103	80-120			
Selenium	0.566	0.050	mg/L	0.5000		113	80-120			
Zinc	1.09	0.010	mg/L	1.000		109	80-120			
LCS Dup (B394526-BSD1)				Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	0.496	0.050	mg/L	0.5000		99.1	80-120	0.281	30	
Antimony	0.530	0.050	mg/L	0.5000		106	80-120	1.09	20	
Arsenic	0.491	0.010	mg/L	0.5000		98.2	80-120	0.818	20	
Barium	0.523	0.050	mg/L	0.5000		105	80-120	2.05	20	
Beryllium	0.513	0.0040	mg/L	0.5000		103	80-120	2.10	20	
Cadmium	0.535	0.0040	mg/L	0.5000		107	80-120	1.29	20	
Calcium	4.00	0.50	mg/L	4.000		99.9	80-120	0.794	20	
Chromium	0.522	0.010	mg/L	0.5000		104	80-120	0.409	20	
Cobalt	0.527	0.010	mg/L	0.5000		105	80-120	0.620	20	
Iron	4.07	0.050	mg/L	4.000		102	80-120	1.05	20	
Lead	0.512	0.010	mg/L	0.5000		102	80-120	0.00333	20	
Magnesium	3.87	0.050	mg/L	4.000		96.8	80-120	0.144	20	
Manganese	0.514	0.010	mg/L	0.5000		103	80-120	1.37	20	
Potassium	4.02	2.0	mg/L	4.000		101	80-120	3.43	20	
Silver	0.544	0.010	mg/L	0.5000		109	80-120	0.345	20	
Sodium	4.07	2.0	mg/L	4.000		102	80-120	1.32	20	
Thallium	0.533	0.050	mg/L	0.5000		107	80-120	1.45	20	
Vanadium	0.534	0.010	mg/L	0.5000		107	80-120	0.134	20	
LCS Dup (B394526-BSD2)				Prepared: 12/13/24 Analyzed: 12/17/24						
Nickel	0.524	0.010	mg/L	0.5000		105	80-120	1.73	30	
LCS Dup (B394526-BSD3)				Prepared: 12/13/24 Analyzed: 12/17/24						
Copper	1.01	0.010	mg/L	1.000		101	80-120	1.29	20	
Selenium	0.561	0.050	mg/L	0.5000		112	80-120	0.893	20	
Zinc	1.09	0.010	mg/L	1.000		109	80-120	0.749	20	
Dilution Check (B394526-SRL1)		**Source: 24K1406-01**		Prepared: 12/13/24 Analyzed: 12/16/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.161	0.25	mg/L		0.161			0.248	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	87.5	2.5	mg/L		85.9			1.82	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Iron	ND	0.25	mg/L		ND				20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	29.7	0.25	mg/L		28.8			3.06	20	
Manganese	0.350	0.050	mg/L		0.345			1.53	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394526 - SW-846 3005A										
Dilution Check (B394526-SRL1)		**Source: 24K1406-01**		Prepared: 12/13/24 Analyzed: 12/16/24						
Potassium	8.11	10	mg/L		8.05			0.690	20	J
Silver	ND	0.050	mg/L		ND				20	
Sodium	140	10	mg/L		137			1.88	20	
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393012 - SW-846 9010C										
Blank (B393012-BLK1)				Prepared: 11/24/24 Analyzed: 11/25/24						
Cyanide	ND	0.010	mg/L							
LCS (B393012-BS1)				Prepared: 11/24/24 Analyzed: 11/25/24						
Cyanide	0.32	0.010	mg/L	0.2999		107	80-120			
LCS Dup (B393012-BSD1)				Prepared: 11/24/24 Analyzed: 11/25/24						
Cyanide	0.35	0.010	mg/L	0.2999		116	80-120	7.63	20	

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BREAKDOWN REPORT

Lab Sample ID:	S114475-PEM1	Analyzed:	11/22/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.86
Endrin [1]	3.89

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.37
Endrin [2]	4.06

BREAKDOWN REPORT

Lab Sample ID:	S114475-PEM2	Analyzed:	11/22/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.20
Endrin [1]	7.07

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.36
Endrin [2]	7.38

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392781-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.387	5.359	5.419	1.6	
	2	5.348	5.318	5.378	1.7	6.1
4,4'-DDE	1	4.901	4.872	4.932	1.6	
	2	4.882	4.853	4.913	1.7	6.1
4,4'-DDT	1	5.617	5.589	5.649	1.5	
	2	5.602	5.573	5.633	1.6	6.5
Aldrin	1	4.137	4.108	4.168	1.3	
	2	4.016	3.987	4.047	1.5	6.9
alpha-BHC	1	3.255	3.226	3.286	1.7	
	2	3.148	3.118	3.178	1.8	5.7
alpha-Chlordane	1	4.836	4.808	4.868	1.5	
	2	4.738	4.708	4.768	1.6	6.5
beta-BHC	1	3.578	3.549	3.609	1.6	
	2	3.492	3.462	3.522	1.8	5.7
delta-BHC	1	3.721	3.692	3.752	1.5	
	2	3.718	3.688	3.748	1.5	0.0
Dieldrin	1	5.143	5.114	5.174	1.6	
	2	4.998	4.969	5.029	1.7	6.1
Endosulfan I	1	4.947	4.918	4.978	1.5	
	2	4.778	4.749	4.809	1.7	12.5
Endosulfan II	1	5.514	5.486	5.546	1.6	
	2	5.413	5.384	5.444	1.7	6.1
Endosulfan Sulfate	1	6.185	6.156	6.216	1.5	
	2	5.913	5.884	5.944	1.6	6.5
Endrin	1	5.332	5.303	5.363	1.6	
	2	5.240	5.211	5.271	1.7	6.1
Endrin Aldehyde	1	5.859	5.830	5.890	1.4	
	2	5.689	5.660	5.720	1.5	6.9
Endrin Ketone	1	6.376	6.347	6.407	1.5	
	2	6.288	6.258	6.318	1.5	0.0
gamma-BHC (Lindane)	1	3.510	3.481	3.541	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392781-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.424	3.393	3.453	1.7	6.1
gamma-Chlordane	1	4.728	4.699	4.759	1.5	
	2	4.620	4.591	4.651	1.7	12.5
Heptachlor	1	3.894	3.865	3.925	1.5	
	2	3.766	3.736	3.796	1.6	6.5
Heptachlor Epoxide	1	4.628	4.599	4.659	1.5	
	2	4.469	4.440	4.500	1.7	6.1
Methoxychlor	1	6.007	5.978	6.038	1.5	
	2	6.142	6.112	6.172	1.4	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392781-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.388	5.359	5.419	1.9	
	2	5.348	5.318	5.378	2.0	5.1
4,4'-DDE	1	4.902	4.872	4.932	1.9	
	2	4.882	4.853	4.913	2.0	5.1
4,4'-DDT	1	5.618	5.589	5.649	1.8	
	2	5.603	5.573	5.633	1.9	5.4
Aldrin	1	4.137	4.108	4.168	1.6	
	2	4.017	3.987	4.047	1.8	11.8
alpha-BHC	1	3.255	3.226	3.286	1.9	
	2	3.148	3.118	3.178	2.0	5.1
alpha-Chlordane	1	4.837	4.808	4.868	1.8	
	2	4.738	4.708	4.768	1.9	5.4
beta-BHC	1	3.579	3.549	3.609	1.9	
	2	3.492	3.462	3.522	2.0	5.1
delta-BHC	1	3.721	3.692	3.752	1.7	
	2	3.718	3.688	3.748	1.8	5.7
Dieldrin	1	5.143	5.114	5.174	1.8	
	2	4.998	4.969	5.029	2.0	10.5
Endosulfan I	1	4.948	4.918	4.978	1.8	
	2	4.778	4.749	4.809	1.9	5.4
Endosulfan II	1	5.515	5.486	5.546	1.8	
	2	5.413	5.384	5.444	2.0	10.5
Endosulfan Sulfate	1	6.186	6.156	6.216	1.8	
	2	5.914	5.884	5.944	1.9	5.4
Endrin	1	5.333	5.303	5.363	1.9	
	2	5.240	5.211	5.271	2.0	5.1
Endrin Aldehyde	1	5.859	5.830	5.890	1.6	
	2	5.689	5.660	5.720	1.7	6.1
Endrin Ketone	1	6.376	6.347	6.407	1.8	
	2	6.288	6.258	6.318	1.8	0.0
gamma-BHC (Lindane)	1	3.510	3.481	3.541	1.8	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392781-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.423	3.393	3.453	1.9	5.4
gamma-Chlordane	1	4.728	4.699	4.759	1.8	
	2	4.620	4.591	4.651	1.9	5.4
Heptachlor	1	3.895	3.865	3.925	1.7	
	2	3.765	3.736	3.796	1.9	11.1
Heptachlor Epoxide	1	4.628	4.599	4.659	1.8	
	2	4.469	4.440	4.500	1.9	5.4
Methoxychlor	1	6.008	5.978	6.038	1.8	
	2	6.142	6.112	6.172	1.7	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B392782-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.96	8.7
Aroclor-1260	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	1.0	11.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B392782-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.87	9.6
Aroclor-1260	1	0.000	0.000	0.000	0.81	
	2	0.000	0.000	0.000	0.96	16.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

7

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24/11/16

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	NYS DEC
Consultant:	E+E
Consultant Address:	One Penn Plaza, New York, NY
Consultant Phone:	732-979-7572
Callout Project Name:	
Project Location:	Court and Luquer St. Brooklyn NY
Callout Number:	C100913
Site/Spill Number:	224414
Project Manager:	Greg Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	Greg Mayer
Sampled By:	Greg Mayer / RJ

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat B.
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	CLMW-01S	16:10	11/13/24		X	GW	
2	CLMW-04I	11:45	11/14/24		X	GW	
3	CLMW-04S	14:05	11/14/24		X	GW	
4	Field Blank	15:20	11/14/24			AQ	
5	Trip Blank	-	11/14/24			AQ	

	1	2	3	4	5	6	7	8				# of Containers
	I	I	I	I	N	I	N	X				[2] Preservation Code
	V	A	A	A	P	P	P	P				[3] Container Code

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

1	2	3	4	5	6	7	8			
8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticides / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID	Mercury 7471B	Cyanide 9010B			
X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X			
X											

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

		Date/Time:
Relinquished by: (signature)		11/14/24
Received by: (signature)	Wifi Pace	11/14/24
Relinquished by: (signature)	Wifi Pace	11/14/24 1900
Received by: (signature)	PACE	11/14/24 1900
Relinquished by: (signature)	PACE	11/14/24
Received by: (signature)		11/14/24 2300
		11/15/24 0300

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

2827 11/15/24 733

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client WSP

Project Courtland Harbor St, V

MCP/RCP Required NA

Deliverable Package Requirement NA

Location Brooklyn, NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk-In ☐ Other ☐ _____

Received By / Date / Time ER 11/5/24 735

Back-Sheet By / Date / Time CA 11/19/24 043

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp ✓ < 6° C Actual Temperature 2.8/2.7

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☑	☒ N/A
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Soils Jars (Circle Amb/Clear)	16oz Amb/Clear																				
	8oz Amb/Clear																				
	4oz Amb/Clear																				
	2oz Amb/Clear																				
Ambers 1 Liter	Unpreserved	2			5																
	HCL																				
	Sulfuric																				
250mL	Sulfuric																				
	Phosphoric																				
	HCl	2			1																
100mL	Unpreserved																				
Plastics 1 Liter	Unpreserved																				
	Sulfuric																				
500mL	Unpreserved																				
	Sulfuric																				
250mL	Unpreserved																				
	Trizma																				
	Sulfuric																				
	Nitric				5																
	NaOH				1																
	Ammonium Acetate																				
	NaOH/Zinc																				
VOA Vials	Unpreserved																				
	HCl	3				2															
	MeOH																				
	D.I. Water																				
	BiSulfate																				
Other / Fill in	Col/Bact																				

Qualtrax ID: 120836

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 20, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Court and Luquer, Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K1715

Enclosed are results of analyses for samples as received by the laboratory on November 20, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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B393150 78

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/20/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1715

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Court and Luquer, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-02I	24K1715-01	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-02S	24K1715-02	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-03I	24K1715-03	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
DUP-CLMW-03-I-Q	24K1715-04	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Trip Blank	24K1715-05	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24K1715-01[CLMW-02I], S115548-CCB1, S115548-CCB3, S115548-CCB4, S115548-IBL1

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
24K1715-01[CLMW-02I], S115548-CCB1, S115548-CCB3, S115548-CCB4, S115548-IBL1

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
24K1715-02[CLMW-02S]

Perfluorooctanesulfonic acid (PFOS)
24K1715-01[CLMW-02I]

SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Nickel
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393730-BLK1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium
24K1715-01[CLMW-02I], B393730-MS1

Magnesium
24K1715-01[CLMW-02I], B393730-MS1

Sodium
24K1715-01[CLMW-02I], B393730-MS1

SW-846 8081B

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24K1715-01[CLMW-02I]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Methoxychlor [2C]
B393097-BLK1, B393097-BS1, B393097-BSD1

SW-846 8260D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B393275-BSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

tert-Amyl Alcohol (TAA)

24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], 24K1715-05[Trip Blank], B393275-BLK1, B393275-BS1, B393275-BSD1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B393275-BS1, B393275-BSD1, S114778-CCV1

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24K1715-01[CLMW-02I]

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1

Hexachloroethane

24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B393095-BSD1

Hexachlorobutadiene

B393095-BSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2,4,5-Tetrachlorobenzene
B393095-BS1, B393095-BSD1

1-Methylnaphthalene
B393095-BS1, B393095-BSD1

2,3,4,6-Tetrachlorophenol
B393095-BS1, B393095-BSD1

2,4,5-Trichlorophenol
B393095-BS1, B393095-BSD1

2,4-Dichlorophenol
B393095-BS1, B393095-BSD1

2,4-Dinitrophenol
B393095-BS1

2-Chlorophenol
B393095-BS1, B393095-BSD1

2-Methylnaphthalene
B393095-BS1, B393095-BSD1

2-Nitrophenol
B393095-BS1, B393095-BSD1

4-Nitrophenol
B393095-BS1, B393095-BSD1

Hexachlorobutadiene
B393095-BS1

Naphthalene
B393095-BS1, B393095-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Dibenz(a,h)anthracene
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Di-n-octylphthalate
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Indeno(1,2,3-cd)pyrene
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

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V-34

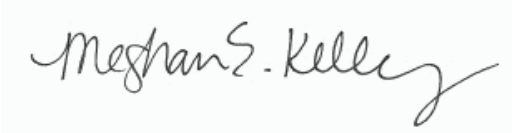
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24K1715-01[CLMW-02I], 24K1715-02[CLMW-02S], 24K1715-03[CLMW-03I], 24K1715-04[DUP-CLMW-03-I-Q], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1, S114725-ICV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Chloroform	2.0	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Tetrachloroethylene	28	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Trichloroethylene	0.69	1.0	0.17	µg/L	1	J	SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		12/2/24 21:12
Toluene-d8	99.4	70-130		12/2/24 21:12
4-Bromofluorobenzene	107	70-130		12/2/24 21:12

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/2/24 21:12	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzaldehyde	ND	9.2	0.67	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Aniline	ND	18	8.3	µg/L	1	V-05	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.2	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Bromophenylphenylether	ND	9.2	0.66	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4-Dinitrophenol	ND	9.2	1.2	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,6-Dinitrotoluene	ND	9.2	0.51	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1	V-06	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
1-Methylnaphthalene	ND	4.6	0.90	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
3-Nitroaniline	ND	9.2	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
4-Nitrophenol	ND	9.2	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Phenol	ND	9.2	0.55	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
Pyridine	ND	18	4.7	µg/L	1	V-34	SW-846 8270E	11/26/24	11/27/24 14:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	11/26/24	11/27/24 14:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.2	15-110		11/27/24 14:54
Phenol-d6	27.5	15-110		11/27/24 14:54
Nitrobenzene-d5	68.3	30-130		11/27/24 14:54
2-Fluorobiphenyl	64.9	30-130		11/27/24 14:54
2,4,6-Tribromophenol	68.1	15-110		11/27/24 14:54
p-Terphenyl-d14	76.5	30-130		11/27/24 14:54

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	11/26/24	12/3/24 0:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	27.9	15-110		12/3/24 0:07	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	15	6.3	0.79	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoropentanoic acid (PFPeA)	19	3.1	0.44	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorohexanoic acid (PFHxA)	18	1.6	0.27	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoroheptanoic acid (PFHpA)	27	1.6	0.28	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorooctanoic acid (PFOA)	210	1.6	0.41	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorononanoic acid (PFNA)	1.2	1.6	0.64	ng/L	1	J	Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorobutanesulfonic acid (PFBS)	6.7	1.6	0.34	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.0	1.6	0.46	ng/L	1	J	Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorohexanesulfonic acid (PFHxS)	6.7	1.6	0.61	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorooctanesulfonic acid (PFOS)	7.1	1.6	0.39	ng/L	1	PF-23	Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.71	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1	PF-17	Draft Method 1633	12/11/24	12/14/24 2:35	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.92	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	2.2	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.9	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/11/24	12/14/24 2:35	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	113		5-130		12/14/24 2:35
13C5-PFPeA	110		40-130		12/14/24 2:35
13C5-PFHxA	111		40-130		12/14/24 2:35
13C4-PFHpA	107		40-130		12/14/24 2:35
13C8-PFOA	107		40-130		12/14/24 2:35
13C9-PFNA	101		40-130		12/14/24 2:35
13C6-PFDA	101		40-130		12/14/24 2:35
13C7-PFUnA	90.7		30-130		12/14/24 2:35
13C2-PFDoA	80.4		10-130		12/14/24 2:35
13C2-PFTeDA	73.6		10-130		12/14/24 2:35
13C3-PFBS	112		40-135		12/14/24 2:35
13C3-PFHxS	111		40-130		12/14/24 2:35
13C8-PFOS	97.8		40-130		12/14/24 2:35
13C2-4:2FTS	**242**	*	40-200	PF-17	12/14/24 2:35
13C2-6:2FTS	149		40-200		12/14/24 2:35
13C2-8:2FTS	93.2		40-300		12/14/24 2:35
13C8-PFOSA	88.7		40-130		12/14/24 2:35
D3-NMeFOSA	72.6		10-130		12/14/24 2:35
D5-NEtFOSA	66.5		10-130		12/14/24 2:35
D3-NMeFOSAA	97.9		40-170		12/14/24 2:35
D5-NEtFOSAA	96.0		25-135		12/14/24 2:35
D7-NMeFOSE	67.7		10-130		12/14/24 2:35
D9-NEtFOSE	66.0		10-130		12/14/24 2:35
13C3-HFPO-DA	109		40-130		12/14/24 2:35

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Sample Flags: H-06

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/26/24	11/27/24 14:54	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.047	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
gamma-Chlordane [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Aldrin [1]	ND	0.047	0.0034	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
alpha-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
beta-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
delta-BHC [2]	ND	0.047	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0040	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
4,4'-DDD [1]	ND	0.038	0.0041	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
4,4'-DDE [1]	ND	0.038	0.0028	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
4,4'-DDT [1]	ND	0.038	0.0041	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Dieldrin [1]	ND	0.0019	0.0013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endosulfan I [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endosulfan II [1]	ND	0.075	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endosulfan sulfate [1]	ND	0.075	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endrin [1]	ND	0.075	0.018	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endrin aldehyde [1]	ND	0.075	0.020	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Endrin ketone [1]	ND	0.075	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Heptachlor [1]	ND	0.047	0.0041	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Heptachlor epoxide [1]	ND	0.047	0.0035	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Methoxychlor [1]	ND	0.47	0.065	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG
Toxaphene [1]	ND	0.94	0.38	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		11/28/24 7:06
Decachlorobiphenyl [2]	87.0	30-150		11/28/24 7:06
Tetrachloro-m-xylene [1]	73.9	30-150		11/28/24 7:06
Tetrachloro-m-xylene [2]	68.1	30-150		11/28/24 7:06

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1221 [1]	ND	0.19	0.098	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1232 [1]	ND	0.19	0.088	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1248 [1]	ND	0.19	0.089	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1254 [1]	ND	0.19	0.099	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1260 [1]	ND	0.19	0.11	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1262 [1]	ND	0.19	0.078	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM
Aroclor-1268 [1]	ND	0.19	0.071	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:11	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		11/27/24 13:11
Decachlorobiphenyl [2]	87.6	30-150		11/27/24 13:11
Tetrachloro-m-xylene [1]	66.4	30-150		11/27/24 13:11
Tetrachloro-m-xylene [2]	71.8	30-150		11/27/24 13:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:01	HNN
Barium	0.18	0.050	0.0098	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Calcium	110	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:01	HNN
Iron	ND	0.050	0.036	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Magnesium	35	0.050	0.016	mg/L	1	MS-19	SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Manganese	0.18	0.010	0.0018	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/3/24	12/4/24 14:16	AAJ
Nickel	0.0066	0.010	0.0046	mg/L	1	B, J	SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Potassium	10	2.0	0.47	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Sodium	110	2.0	0.38	mg/L	1	MS-19	SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:19	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02I Sampled: 11/18/2024 11:45

Sample ID: 24K1715-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	12/2/24	12/3/24 9:20	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Bromodichloromethane	0.61	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Chloroform	26	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
cis-1,2-Dichloroethylene	0.38	1.0	0.20	µg/L	1	J	SW-846 8260D	11/27/24	12/2/24 22:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Methylene Chloride	0.38	5.0	0.19	µg/L	1	J	SW-846 8260D	11/27/24	12/2/24 22:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Tetrachloroethylene	79	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Trichloroethylene	1.4	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 22:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		12/2/24 22:54
Toluene-d8	101	70-130		12/2/24 22:54
4-Bromofluorobenzene	107	70-130		12/2/24 22:54

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/2/24 22:54	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.4	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzaldehyde	ND	9.6	0.70	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Biphenyl	ND	19	0.89	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Caprolactam	ND	9.6	0.69	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Acenaphthene	ND	4.8	0.76	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Acenaphthylene	ND	4.8	0.62	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Acetophenone	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Aniline	ND	19	8.6	µg/L	1	V-05	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzo(a)pyrene	ND	4.8	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Bis(2-chloroethoxy)methane	ND	9.6	0.55	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Bis(2-chloroethyl)ether	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.6	0.72	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.6	0.31	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Bromophenylphenylether	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Butylbenzylphthalate	ND	9.6	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Carbazole	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Chloroaniline	ND	9.6	5.0	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Chloro-3-methylphenol	ND	9.6	0.61	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Chloronaphthalene	ND	9.6	0.78	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Chlorophenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Chlorophenylphenylether	ND	9.6	0.84	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Dibenz(a,h)anthracene	ND	4.8	0.46	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Dibenzofuran	ND	4.8	0.83	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Di-n-butylphthalate	1.1	9.6	0.48	µg/L	1	J	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
3,3-Dichlorobenzidine	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4-Dichlorophenol	ND	9.6	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Diethylphthalate	ND	9.6	0.54	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4-Dimethylphenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Dimethylphthalate	ND	9.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4-Dinitrophenol	ND	9.6	1.3	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4-Dinitrotoluene	ND	9.6	0.34	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,6-Dinitrotoluene	ND	9.6	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Di-n-octylphthalate	ND	9.6	0.32	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Fluorene	ND	4.8	0.73	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Hexachlorobenzene	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Hexachlorocyclopentadiene	ND	9.6	2.7	µg/L	1	V-06	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Hexachloroethane	ND	9.6	1.2	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.46	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Isophorone	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
1-Methylnaphthalene	ND	4.8	0.94	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Methylnaphthalene	ND	4.8	0.90	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Methylphenol	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
3/4-Methylphenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Naphthalene	ND	4.8	0.87	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Nitroaniline	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
3-Nitroaniline	ND	9.6	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Nitroaniline	ND	9.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Nitrobenzene	ND	9.6	0.65	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2-Nitrophenol	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
4-Nitrophenol	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
N-Nitrosodi-n-propylamine	ND	9.6	0.63	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Pentachlorophenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Phenanthrene	ND	4.8	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Phenol	ND	9.6	0.57	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	SW-846 8270E	11/26/24	11/27/24 15:15	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4,5-Trichlorophenol	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL
2,4,6-Trichlorophenol	ND	9.6	0.36	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.5	15-110		11/27/24 15:15
Phenol-d6	32.8	15-110		11/27/24 15:15
Nitrobenzene-d5	79.8	30-130		11/27/24 15:15
2-Fluorobiphenyl	71.4	30-130		11/27/24 15:15
2,4,6-Tribromophenol	70.1	15-110		11/27/24 15:15
p-Terphenyl-d14	81.6	30-130		11/27/24 15:15

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.033	µg/L	1		SW-846 8270E	11/26/24	12/3/24 0:27	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.2	15-110		12/3/24 0:27

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	6.0	0.75	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoropentanoic acid (PFPeA)	14	3.0	0.42	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorohexanoic acid (PFHxA)	13	1.5	0.26	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoroheptanoic acid (PFHpA)	14	1.5	0.27	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorooctanoic acid (PFOA)	90	1.5	0.39	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorobutanesulfonic acid (PFBS)	120	1.5	0.32	ng/L	1	PF-23	Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoropentanesulfonic acid (PFPeS)	0.44	1.5	0.44	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorohexanesulfonic acid (PFHxS)	2.2	1.5	0.58	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.80	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorooctanesulfonic acid (PFOS)	1.3	1.5	0.37	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.68	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	1.2	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	2.8	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	3.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	1.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	0.80	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
9Cl-PF3ONS (F53B Minor)	ND	6.0	0.88	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
11Cl-PF3OUdS (F53B Major)	ND	6.0	1.6	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	2.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.6	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.40	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/10/24	12/14/24 17:33	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	67.4	5-130		12/14/24 17:33
13C5-PFPeA	76.2	40-130		12/14/24 17:33
13C5-PFHxA	75.9	40-130		12/14/24 17:33
13C4-PFHpA	73.9	40-130		12/14/24 17:33
13C8-PFOA	71.5	40-130		12/14/24 17:33
13C9-PFNA	68.6	40-130		12/14/24 17:33
13C6-PFDA	62.5	40-130		12/14/24 17:33
13C7-PFUnA	52.5	30-130		12/14/24 17:33
13C2-PFDoA	44.5	10-130		12/14/24 17:33
13C2-PFTeDA	36.6	10-130		12/14/24 17:33
13C3-PFBS	78.1	40-135		12/14/24 17:33
13C3-PFHxS	69.5	40-130		12/14/24 17:33
13C8-PFOS	62.3	40-130		12/14/24 17:33
13C2-4:2FTS	110	40-200		12/14/24 17:33
13C2-6:2FTS	76.7	40-200		12/14/24 17:33
13C2-8:2FTS	61.2	40-300		12/14/24 17:33
13C8-PFOSA	62.9	40-130		12/14/24 17:33
D3-NMeFOSA	46.6	10-130		12/14/24 17:33
D5-NEtFOSA	39.1	10-130		12/14/24 17:33
D3-NMeFOSAA	56.5	40-170		12/14/24 17:33
D5-NEtFOSAA	53.0	25-135		12/14/24 17:33
D7-NMeFOSE	40.5	10-130		12/14/24 17:33
D9-NEtFOSE	36.2	10-130		12/14/24 17:33
13C3-HFPO-DA	77.2	40-130		12/14/24 17:33

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/26/24	11/27/24 15:15	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
gamma-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Aldrin [1]	ND	0.045	0.0032	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
alpha-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
beta-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
delta-BHC [2]	ND	0.045	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0038	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
4,4'-DDD [1]	ND	0.036	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
4,4'-DDE [1]	ND	0.036	0.0027	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
4,4'-DDT [1]	ND	0.036	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Dieldrin [1]	ND	0.0018	0.0012	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endosulfan I [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endosulfan II [1]	ND	0.071	0.013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endosulfan sulfate [1]	ND	0.071	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endrin [1]	ND	0.071	0.017	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endrin aldehyde [1]	ND	0.071	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Endrin ketone [1]	ND	0.071	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Heptachlor [1]	ND	0.045	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Heptachlor epoxide [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Methoxychlor [1]	ND	0.45	0.061	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG
Toxaphene [1]	ND	0.89	0.36	µg/L	1		SW-846 8081B	11/26/24	11/28/24 7:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		11/28/24 7:35
Decachlorobiphenyl [2]	86.4	30-150		11/28/24 7:35
Tetrachloro-m-xylene [1]	64.7	30-150		11/28/24 7:35
Tetrachloro-m-xylene [2]	60.5	30-150		11/28/24 7:35

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1221 [1]	ND	0.18	0.093	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1232 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1242 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1248 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1254 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1262 [1]	ND	0.18	0.074	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM
Aroclor-1268 [1]	ND	0.18	0.068	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:29	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.8	30-150		11/27/24 13:29
Decachlorobiphenyl [2]	95.0	30-150		11/27/24 13:29
Tetrachloro-m-xylene [1]	68.5	30-150		11/27/24 13:29
Tetrachloro-m-xylene [2]	74.5	30-150		11/27/24 13:29

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.15	0.050	0.025	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:07	HNN
Barium	0.064	0.050	0.0098	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Calcium	66	0.50	0.21	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Copper	0.013	0.010	0.0095	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:07	HNN
Iron	0.23	0.050	0.036	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Magnesium	15	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Manganese	0.040	0.010	0.0018	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/3/24	12/4/24 14:18	AAJ
Nickel	0.0065	0.010	0.0046	mg/L	1	B, J	SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Potassium	8.3	2.0	0.47	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Sodium	220	2.0	0.38	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:27	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-02S Sampled: 11/19/2024 10:30

Sample ID: 24K1715-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	12/2/24	12/3/24 9:22	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Chloroform	2.2	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Tetrachloroethylene	45	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Trichloroethylene	0.53	1.0	0.17	µg/L	1	J	SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		12/2/24 23:20
Toluene-d8	101	70-130		12/2/24 23:20
4-Bromofluorobenzene	105	70-130		12/2/24 23:20

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/2/24 23:20	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.70	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Chloro-3-methylphenol	ND	9.4	0.59	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Chlorophenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Dibenzofuran	ND	4.7	0.80	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4-Dimethylphenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1	V-06	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
1-Methylnaphthalene	ND	4.7	0.92	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Nitrobenzene	ND	9.4	0.63	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.61	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Phenol	ND	9.4	0.56	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	SW-846 8270E	11/26/24	11/27/24 15:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:36	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.9	15-110		11/27/24 15:36
Phenol-d6	32.6	15-110		11/27/24 15:36
Nitrobenzene-d5	79.4	30-130		11/27/24 15:36
2-Fluorobiphenyl	72.8	30-130		11/27/24 15:36
2,4,6-Tribromophenol	76.6	15-110		11/27/24 15:36
p-Terphenyl-d14	84.3	30-130		11/27/24 15:36

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	11/26/24	12/3/24 0:46	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.8	15-110		12/3/24 0:46	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	19	5.6	0.70	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoropentanoic acid (PFPeA)	20	2.8	0.39	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorohexanoic acid (PFHxA)	17	1.4	0.24	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoroheptanoic acid (PFHpA)	16	1.4	0.25	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorooctanoic acid (PFOA)	140	1.4	0.36	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorononanoic acid (PFNA)	0.63	1.4	0.57	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorodecanoic acid (PFDA)	ND	1.4	0.34	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.4	0.44	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.4	0.30	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	0.42	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	0.13	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorobutanesulfonic acid (PFBS)	57	1.4	0.30	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoropentanesulfonic acid (PFPeS)	0.60	1.4	0.41	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorohexanesulfonic acid (PFHxS)	6.5	1.4	0.54	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	0.74	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorooctanesulfonic acid (PFOS)	3.1	1.4	0.35	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorononanesulfonic acid (PFNS)	ND	1.4	0.41	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	0.44	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	0.63	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.6	1.2	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.6	2.6	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.6	2.9	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	0.48	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.4	0.24	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	0.29	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.4	1.3	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.4	0.56	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	14	1.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	1.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.6	1.3	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.6	0.74	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
9Cl-PF3ONS (F53B Minor)	ND	5.6	0.81	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
11Cl-PF3OUdS (F53B Major)	ND	5.6	1.5	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.0	2.0	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	35	6.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	35	7.8	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.8	0.49	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.8	0.40	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.8	0.37	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.8	1.9	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:00	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	101	5-130		12/14/24 18:00
13C5-PFPeA	99.0	40-130		12/14/24 18:00
13C5-PFHxA	100	40-130		12/14/24 18:00
13C4-PFHpA	97.6	40-130		12/14/24 18:00
13C8-PFOA	102	40-130		12/14/24 18:00
13C9-PFNA	94.6	40-130		12/14/24 18:00
13C6-PFDA	92.3	40-130		12/14/24 18:00
13C7-PFUnA	82.0	30-130		12/14/24 18:00
13C2-PFDoA	76.8	10-130		12/14/24 18:00
13C2-PFTeDA	68.1	10-130		12/14/24 18:00
13C3-PFBS	106	40-135		12/14/24 18:00
13C3-PFHxS	104	40-130		12/14/24 18:00
13C8-PFOS	84.2	40-130		12/14/24 18:00
13C2-4:2FTS	187	40-200		12/14/24 18:00
13C2-6:2FTS	127	40-200		12/14/24 18:00
13C2-8:2FTS	82.5	40-300		12/14/24 18:00
13C8-PFOSA	80.1	40-130		12/14/24 18:00
D3-NMeFOSA	62.6	10-130		12/14/24 18:00
D5-NEtFOSA	58.8	10-130		12/14/24 18:00
D3-NMeFOSAA	76.6	40-170		12/14/24 18:00
D5-NEtFOSAA	83.9	25-135		12/14/24 18:00
D7-NMeFOSE	63.0	10-130		12/14/24 18:00
D9-NEtFOSE	61.7	10-130		12/14/24 18:00
13C3-HFPO-DA	99.5	40-130		12/14/24 18:00

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/26/24	11/27/24 15:36	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
gamma-Chlordane [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Aldrin [1]	ND	0.045	0.0032	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
alpha-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
beta-BHC [1]	ND	0.045	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
delta-BHC [2]	ND	0.045	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0038	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
4,4'-DDD [1]	ND	0.036	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
4,4'-DDE [1]	ND	0.036	0.0027	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
4,4'-DDT [1]	ND	0.036	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Dieldrin [1]	ND	0.0018	0.0013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endosulfan I [1]	ND	0.045	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endosulfan II [1]	ND	0.071	0.013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endosulfan sulfate [1]	ND	0.071	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endrin [1]	ND	0.071	0.017	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endrin aldehyde [1]	ND	0.071	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Endrin ketone [1]	ND	0.071	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Heptachlor [1]	ND	0.045	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Heptachlor epoxide [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Methoxychlor [1]	ND	0.45	0.061	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG
Toxaphene [1]	ND	0.89	0.36	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.5	30-150		11/28/24 8:03
Decachlorobiphenyl [2]	83.6	30-150		11/28/24 8:03
Tetrachloro-m-xylene [1]	79.3	30-150		11/28/24 8:03
Tetrachloro-m-xylene [2]	71.6	30-150		11/28/24 8:03

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1221 [1]	ND	0.18	0.093	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1232 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1242 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1248 [1]	ND	0.18	0.084	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1254 [1]	ND	0.18	0.094	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1262 [1]	ND	0.18	0.074	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM
Aroclor-1268 [1]	ND	0.18	0.068	µg/L	1		SW-846 8082A	11/26/24	11/27/24 13:46	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		11/27/24 13:46
Decachlorobiphenyl [2]	83.3	30-150		11/27/24 13:46
Tetrachloro-m-xylene [1]	68.9	30-150		11/27/24 13:46
Tetrachloro-m-xylene [2]	74.0	30-150		11/27/24 13:46

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.17	0.050	0.025	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:12	HNN
Barium	0.12	0.050	0.0098	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Calcium	51	0.50	0.21	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Copper	0.017	0.010	0.0095	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:12	HNN
Iron	0.29	0.050	0.036	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Magnesium	18	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Manganese	0.27	0.010	0.0018	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/3/24	12/4/24 14:19	AAJ
Nickel	0.018	0.010	0.0046	mg/L	1	B	SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Potassium	4.0	2.0	0.47	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Sodium	440	2.0	0.38	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN
Zinc	0.011	0.010	0.0080	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:35	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: CLMW-03I Sampled: 11/19/2024 13:00

Sample ID: 24K1715-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.0096	0.010	0.0088	mg/L	1	J	SW-846 9014	12/2/24	12/3/24 9:24	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Chloroform	2.1	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Tetrachloroethylene	44	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Trichloroethylene	0.47	1.0	0.17	µg/L	1	J	SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 23:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		12/2/24 23:45
Toluene-d8	101	70-130		12/2/24 23:45
4-Bromofluorobenzene	103	70-130		12/2/24 23:45

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/2/24 23:45	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Biphenyl	ND	18	0.83	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Caprolactam	ND	9.0	0.64	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Acenaphthene	ND	4.5	0.70	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Aniline	ND	18	8.0	µg/L	1	V-05	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	0.67	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Butylbenzylphthalate	ND	9.0	0.35	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Chloroaniline	ND	9.0	4.7	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4-Dinitrophenol	ND	9.0	1.2	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,6-Dinitrotoluene	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Fluoranthene	ND	4.5	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Hexachlorocyclopentadiene	ND	9.0	2.5	µg/L	1	V-06	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Hexachloroethane	ND	9.0	1.1	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
1-Methylnaphthalene	ND	4.5	0.88	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Methylnaphthalene	ND	4.5	0.84	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Nitroaniline	ND	9.0	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
3-Nitroaniline	ND	9.0	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Nitrobenzene	ND	9.0	0.61	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
4-Nitrophenol	ND	9.0	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
Pyridine	ND	18	4.6	µg/L	1	V-34	SW-846 8270E	11/26/24	11/27/24 15:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	11/26/24	11/27/24 15:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	38.5	15-110		11/27/24 15:56
Phenol-d6	26.2	15-110		11/27/24 15:56
Nitrobenzene-d5	70.1	30-130		11/27/24 15:56
2-Fluorobiphenyl	63.5	30-130		11/27/24 15:56
2,4,6-Tribromophenol	64.8	15-110		11/27/24 15:56
p-Terphenyl-d14	76.3	30-130		11/27/24 15:56

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	11/26/24	12/3/24 1:06	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	26.1	15-110					12/3/24 1:06	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	21	6.0	0.75	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoropentanoic acid (PFPeA)	22	3.0	0.42	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorohexanoic acid (PFHxA)	19	1.5	0.26	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoroheptanoic acid (PFHpA)	17	1.5	0.26	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorooctanoic acid (PFOA)	150	1.5	0.39	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorononanoic acid (PFNA)	0.73	1.5	0.61	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorobutanesulfonic acid (PFBS)	65	1.5	0.32	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoropentanesulfonic acid (PFPeS)	0.54	1.5	0.44	ng/L	1	J	Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorohexanesulfonic acid (PFHxS)	7.3	1.5	0.58	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorooctanesulfonic acid (PFOS)	3.0	1.5	0.37	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	1.2	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	2.8	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	3.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	1.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	0.79	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
9Cl-PF3ONS (F53B Minor)	ND	6.0	0.87	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
11Cl-PF3OUdS (F53B Major)	ND	6.0	1.6	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	2.1	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.6	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.4	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.40	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/10/24	12/14/24 18:10	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	87.6	5-130		12/14/24 18:10
13C5-PFPeA	84.6	40-130		12/14/24 18:10
13C5-PFHxA	87.0	40-130		12/14/24 18:10
13C4-PFHpA	84.2	40-130		12/14/24 18:10
13C8-PFOA	91.5	40-130		12/14/24 18:10
13C9-PFNA	80.1	40-130		12/14/24 18:10
13C6-PFDA	75.8	40-130		12/14/24 18:10
13C7-PFUnA	74.7	30-130		12/14/24 18:10
13C2-PFDoA	64.8	10-130		12/14/24 18:10
13C2-PFTeDA	59.7	10-130		12/14/24 18:10
13C3-PFBS	87.4	40-135		12/14/24 18:10
13C3-PFHxS	85.4	40-130		12/14/24 18:10
13C8-PFOS	78.9	40-130		12/14/24 18:10
13C2-4:2FTS	162	40-200		12/14/24 18:10
13C2-6:2FTS	97.9	40-200		12/14/24 18:10
13C2-8:2FTS	75.5	40-300		12/14/24 18:10
13C8-PFOSA	72.0	40-130		12/14/24 18:10
D3-NMeFOSA	55.4	10-130		12/14/24 18:10
D5-NEtFOSA	53.8	10-130		12/14/24 18:10
D3-NMeFOSAA	73.5	40-170		12/14/24 18:10
D5-NEtFOSAA	72.6	25-135		12/14/24 18:10
D7-NMeFOSE	56.0	10-130		12/14/24 18:10
D9-NEtFOSE	55.5	10-130		12/14/24 18:10
13C3-HFPO-DA	85.9	40-130		12/14/24 18:10

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/26/24	11/27/24 15:56	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
gamma-Chlordane [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Aldrin [1]	ND	0.047	0.0034	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
alpha-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
beta-BHC [1]	ND	0.047	0.020	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
delta-BHC [2]	ND	0.047	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0040	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
4,4'-DDD [1]	ND	0.038	0.0042	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
4,4'-DDE [1]	ND	0.038	0.0028	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
4,4'-DDT [1]	ND	0.038	0.0042	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Dieldrin [1]	ND	0.0019	0.0013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endosulfan I [1]	ND	0.047	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endosulfan II [1]	ND	0.076	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endosulfan sulfate [1]	ND	0.076	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endrin [1]	ND	0.076	0.018	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endrin aldehyde [1]	ND	0.076	0.021	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Endrin ketone [1]	ND	0.076	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Heptachlor [1]	ND	0.047	0.0042	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Heptachlor epoxide [1]	ND	0.047	0.0035	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Methoxychlor [1]	ND	0.47	0.065	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG
Toxaphene [1]	ND	0.95	0.38	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	84.9	30-150		11/28/24	8:31
Decachlorobiphenyl [2]	81.9	30-150		11/28/24	8:31
Tetrachloro-m-xylene [1]	71.3	30-150		11/28/24	8:31
Tetrachloro-m-xylene [2]	67.0	30-150		11/28/24	8:31

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1221 [1]	ND	0.19	0.099	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1232 [1]	ND	0.19	0.089	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1248 [1]	ND	0.19	0.089	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1254 [1]	ND	0.19	0.099	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1262 [1]	ND	0.19	0.078	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM
Aroclor-1268 [1]	ND	0.19	0.072	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:04	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		11/27/24 14:04
Decachlorobiphenyl [2]	77.6	30-150		11/27/24 14:04
Tetrachloro-m-xylene [1]	62.6	30-150		11/27/24 14:04
Tetrachloro-m-xylene [2]	66.6	30-150		11/27/24 14:04

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.12	0.050	0.025	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:18	HNN
Barium	0.12	0.050	0.0098	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Calcium	50	0.50	0.21	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Copper	0.016	0.010	0.0095	mg/L	1		SW-846 6010D	11/27/24	12/20/24 13:18	HNN
Iron	0.21	0.050	0.036	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Magnesium	17	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Manganese	0.26	0.010	0.0018	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/3/24	12/4/24 14:21	AAJ
Nickel	0.018	0.010	0.0046	mg/L	1	B	SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Potassium	3.9	2.0	0.47	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Sodium	440	2.0	0.38	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/27/24	12/3/24 20:43	HNN

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: DUP-CLMW-03-I-Q Sampled: 11/19/2024 13:00

Sample ID: 24K1715-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	12/2/24	12/3/24 9:26	LL

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: Trip Blank Sampled: 11/19/2024 00:00

Sample ID: 24K1715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: Trip Blank Sampled: 11/19/2024 00:00

Sample ID: 24K1715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/2/24 21:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		12/2/24 21:38
Toluene-d8	103	70-130		12/2/24 21:38
4-Bromofluorobenzene	108	70-130		12/2/24 21:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1715

Date Received: 11/20/2024

Field Sample #: Trip Blank Sampled: 11/19/2024 00:00

Sample ID: 24K1715-05

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/2/24 21:38	EEH

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393958	509	4.00	12/11/24

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-02 [CLMW-02S]	B393961	532	4.00	12/10/24
24K1715-03 [CLMW-03I]	B393961	575	4.00	12/10/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393961	535	4.00	12/10/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393730	50.0	50.0	11/27/24
24K1715-02 [CLMW-02S]	B393730	50.0	50.0	11/27/24
24K1715-03 [CLMW-03I]	B393730	50.0	50.0	11/27/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393730	50.0	50.0	11/27/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393620	10.0	10.0	12/03/24
24K1715-02 [CLMW-02S]	B393620	10.0	10.0	12/03/24
24K1715-03 [CLMW-03I]	B393620	10.0	10.0	12/03/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393620	10.0	10.0	12/03/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393097	106	2.00	11/26/24
24K1715-02 [CLMW-02S]	B393097	112	2.00	11/26/24
24K1715-03 [CLMW-03I]	B393097	112	2.00	11/26/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393097	105	2.00	11/26/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393096	106	2.00	11/26/24
24K1715-02 [CLMW-02S]	B393096	112	2.00	11/26/24
24K1715-03 [CLMW-03I]	B393096	112	2.00	11/26/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393096	105	2.00	11/26/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393275	5	5.00	11/27/24
24K1715-02 [CLMW-02S]	B393275	5	5.00	11/27/24
24K1715-03 [CLMW-03I]	B393275	5	5.00	11/27/24

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Sample Extraction Data

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-04 [DUP-CLMW-03-I-Q]	B393275	5	5.00	11/27/24
24K1715-05 [Trip Blank]	B393275	5	5.00	11/27/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393095	108	1.00	11/26/24
24K1715-02 [CLMW-02S]	B393095	104	1.00	11/26/24
24K1715-03 [CLMW-03I]	B393095	107	1.00	11/26/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393095	112	1.00	11/26/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393150	1040	1.00	11/26/24
24K1715-02 [CLMW-02S]	B393150	1000	1.00	11/26/24
24K1715-03 [CLMW-03I]	B393150	1040	1.00	11/26/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393150	1040	1.00	11/26/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1715-01 [CLMW-02I]	B393436	50.0	50.0	12/02/24
24K1715-02 [CLMW-02S]	B393436	50.0	50.0	12/02/24
24K1715-03 [CLMW-03I]	B393436	50.0	50.0	12/02/24
24K1715-04 [DUP-CLMW-03-I-Q]	B393436	50.0	50.0	12/02/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							R-05
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B											
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.00		102	70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.00		102	70-130				
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.00		105	70-130				
LCS (B393275-BS1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Acetone	88.9	50	µg/L	100.0		88.9	70-160				†
tert-Amyl Alcohol (TAA)	75.2	5.0	µg/L	100.0		75.2	70-130			R-05	
tert-Amyl Ethyl Ether (TAEE)	8.25	0.50	µg/L	10.00		82.5	70-130				
tert-Amyl Methyl Ether (TAME)	8.50	0.50	µg/L	10.00		85.0	70-130				
Benzene	9.67	1.0	µg/L	10.00		96.7	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130				
Bromodichloromethane	11.4	0.50	µg/L	10.00		114	70-130				
Bromoform	11.2	1.0	µg/L	10.00		112	70-130				
Bromomethane	9.08	2.0	µg/L	10.00		90.8	40-160				†
2-Butanone (MEK)	70.2	20	µg/L	100.0		70.2	40-160				†
tert-Butyl Alcohol (TBA)	87.8	20	µg/L	100.0		87.8	40-160				†
n-Butylbenzene	9.29	1.0	µg/L	10.00		92.9	70-130				
sec-Butylbenzene	9.50	1.0	µg/L	10.00		95.0	70-130				
tert-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.10	0.50	µg/L	10.00		91.0	70-130				
Carbon Disulfide	92.5	5.0	µg/L	100.0		92.5	70-130				
Carbon Tetrachloride	11.5	5.0	µg/L	10.00		115	70-130				
Chlorobenzene	10.5	1.0	µg/L	10.00		105	70-130				
Chlorodibromomethane	11.9	0.50	µg/L	10.00		119	70-130				
Chloroethane	8.86	2.0	µg/L	10.00		88.6	70-130				
Chloroform	10.2	2.0	µg/L	10.00		102	70-130				
Chloromethane	8.94	2.0	µg/L	10.00		89.4	40-160				†
Cyclohexane	8.73	5.0	µg/L	10.00		87.3	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.98	5.0	µg/L	10.00		89.8	70-130				
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.00		109	70-130				
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
1,4-Dichlorobenzene	9.89	1.0	µg/L	10.00		98.9	70-130				
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.00		117	40-160				†
1,1-Dichloroethane	9.95	1.0	µg/L	10.00		99.5	70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.00		108	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B											
LCS (B393275-BS1)				Prepared: 11/27/24 Analyzed: 12/02/24							
1,1-Dichloroethylene	10.8	1.0	µg/L	10.00		108	70-130				
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
trans-1,2-Dichloroethylene	9.88	1.0	µg/L	10.00		98.8	70-130				
1,2-Dichloropropane	9.73	1.0	µg/L	10.00		97.3	70-130				
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103	70-130				
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.00		98.6	70-130				
Diisopropyl Ether (DIPE)	9.93	0.50	µg/L	10.00		99.3	70-130				
Ethanol	112	50	µg/L	100.0		112	40-160				
Ethylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
2-Hexanone (MBK)	93.1	10	µg/L	100.0		93.1	70-160				†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.00		107	70-130				
p-Isopropyltoluene (p-Cymene)	9.72	1.0	µg/L	10.00		97.2	70-130				
Methyl Acetate	9.64	1.0	µg/L	10.00		96.4	70-130				
Methyl tert-Butyl Ether (MTBE)	8.98	1.0	µg/L	10.00		89.8	70-130				
Methyl Cyclohexane	9.24	1.0	µg/L	10.00		92.4	70-130				
Methylene Chloride	10.6	5.0	µg/L	10.00		106	70-130				
4-Methyl-2-pentanone (MIBK)	97.4	10	µg/L	100.0		97.4	70-160				†
Naphthalene	10.1	2.0	µg/L	10.00		101	40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
Styrene	10.5	1.0	µg/L	10.00		105	70-130				
1,1,2,2-Tetrachloroethane	9.68	0.50	µg/L	10.00		96.8	70-130				
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
Toluene	10.4	1.0	µg/L	10.00		104	70-130				
1,2,3-Trichlorobenzene	12.1	5.0	µg/L	10.00		121	70-130			V-20	
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130				
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130				
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130				
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.00		117	70-130				
1,2,3-Trichloropropane	9.46	2.0	µg/L	10.00		94.6	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130				
1,2,4-Trimethylbenzene	9.77	1.0	µg/L	10.00		97.7	70-130				
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
Vinyl Chloride	10.4	2.0	µg/L	10.00		104	40-160				†
m+p Xylene	21.4	2.0	µg/L	20.00		107	70-130				
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130				
Xylenes (total)	32.3	1.0	µg/L	30.00		108	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.00		103	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*26.6*		µg/L	25.00		107	70-130				
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Acetone	108	50	µg/L	100.0		108	70-160	19.3	25		†
tert-Amyl Alcohol (TAA)	101	5.0	µg/L	100.0		101	70-130	**29.2** *	25	R-05	
tert-Amyl Ethyl Ether (TAEE)	9.78	0.50	µg/L	10.00		97.8	70-130	17.0	25		
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.00		100	70-130	16.6	25		
Benzene	10.1	1.0	µg/L	10.00		101	70-130	4.05	25		
Bromochloromethane	10.7	1.0	µg/L	10.00		107	70-130	1.49	25		
Bromodichloromethane	12.0	0.50	µg/L	10.00		120	70-130	5.29	25		
Bromoform	12.2	1.0	µg/L	10.00		122	70-130	8.52	25		
Bromomethane	10.4	2.0	µg/L	10.00		104	40-160	13.6	25		†
2-Butanone (MEK)	87.4	20	µg/L	100.0		87.4	40-160	21.8	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B											
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24							
tert-Butyl Alcohol (TBA)	111	20	µg/L	100.0		111	40-160	23.4	25		†
n-Butylbenzene	9.79	1.0	µg/L	10.00		97.9	70-130	5.24	25		
sec-Butylbenzene	9.98	1.0	µg/L	10.00		99.8	70-130	4.93	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	1.65	25		
tert-Butyl Ethyl Ether (TBEE)	9.79	0.50	µg/L	10.00		97.9	70-130	7.31	25		
Carbon Disulfide	94.3	5.0	µg/L	100.0		94.3	70-130	1.86	25		
Carbon Tetrachloride	12.3	5.0	µg/L	10.00		123	70-130	6.39	25		
Chlorobenzene	11.3	1.0	µg/L	10.00		113	70-130	7.07	25		
Chlorodibromomethane	12.2	0.50	µg/L	10.00		122	70-130	2.08	25		
Chloroethane	9.43	2.0	µg/L	10.00		94.3	70-130	6.23	25		
Chloroform	10.5	2.0	µg/L	10.00		105	70-130	3.48	25		
Chloromethane	9.47	2.0	µg/L	10.00		94.7	40-160	5.76	25		†
Cyclohexane	9.32	5.0	µg/L	10.00		93.2	70-130	6.54	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102	70-130	13.1	25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130	3.17	25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	3.93	25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	3.68	25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	10.1	25		
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.00		110	40-160	5.91	25		†
1,1-Dichloroethane	10.7	1.0	µg/L	10.00		107	70-130	7.26	25		
1,2-Dichloroethane	11.1	1.0	µg/L	10.00		111	70-130	2.56	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	0.737	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130	0.286	25		
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130	6.08	25		
1,2-Dichloropropane	9.66	1.0	µg/L	10.00		96.6	70-130	0.722	25		
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107	70-130	3.24	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.00		106	70-130	7.23	25		
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.00		100	70-130	1.20	25		
Ethanol	112	50	µg/L	100.0		112	40-160	0.161	25		
Ethylbenzene	10.9	1.0	µg/L	10.00		109	70-130	1.48	25		
2-Hexanone (MBK)	114	10	µg/L	100.0		114	70-160	20.6	25		†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.00		111	70-130	3.58	25		
p-Isopropyltoluene (p-Cymene)	9.80	1.0	µg/L	10.00		98.0	70-130	0.820	25		
Methyl Acetate	10.7	1.0	µg/L	10.00		107	70-130	10.0	25		
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	70-130	14.3	25		
Methyl Cyclohexane	9.42	1.0	µg/L	10.00		94.2	70-130	1.93	25		
Methylene Chloride	10.9	5.0	µg/L	10.00		109	70-130	2.97	25		
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100.0		115	70-160	16.9	25		†
Naphthalene	11.9	2.0	µg/L	10.00		119	40-130	16.7	25		†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111	70-130	6.82	25		
Styrene	11.4	1.0	µg/L	10.00		114	70-130	8.02	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00		108	70-130	11.2	25		
Tetrachloroethylene	12.1	1.0	µg/L	10.00		121	70-130	2.51	25		
Toluene	11.0	1.0	µg/L	10.00		110	70-130	5.51	25		
1,2,3-Trichlorobenzene	14.2	5.0	µg/L	10.00		**142**	* 70-130	16.0	25	L-07, V-20	
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.00		118	70-130	5.67	25		
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00		116	70-130	1.48	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130	3.54	25		
Trichloroethylene	11.3	1.0	µg/L	10.00		113	70-130	3.15	25		
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.00		119	70-130	2.29	25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109	70-130	13.9	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00		108	70-130	3.30	25	
1,2,4-Trimethylbenzene	9.93	1.0	µg/L	10.00		99.3	70-130	1.62	25	
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.00		112	70-130	4.48	25	
Vinyl Chloride	10.9	2.0	µg/L	10.00		109	40-160	5.45	25	†
m+p Xylene	22.4	2.0	µg/L	20.00		112	70-130	4.39	25	
o-Xylene	11.4	1.0	µg/L	10.00		114	70-130	4.58	25	
Xylenes (total)	33.7	1.0	µg/L	30.00		112	0-200	4.46		
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.00		103	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C										
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-06
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C											
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	20	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*162*		µg/L	400.0		40.5		15-110			
Surrogate: Phenol-d6	*115*		µg/L	400.0		28.8		15-110			
Surrogate: Nitrobenzene-d5	*138*		µg/L	200.0		69.2		30-130			
Surrogate: 2-Fluorobiphenyl	*116*		µg/L	200.0		57.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*246*		µg/L	400.0		61.6		15-110			
Surrogate: p-Terphenyl-d14	*157*		µg/L	200.0		78.3		30-130			
LCS (B393095-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24							
2,3,4,6-Tetrachlorophenol	87.1	20	µg/L	100.0		87.1		40-140			R-05
Atrazine	93.9	20	µg/L	100.0		93.9		40-140			
Benzaldehyde	78.3	10	µg/L	100.0		78.3		40-140			
Biphenyl	72.7	20	µg/L	100.0		72.7		40-140			
Caprolactam	28.6	10	µg/L	100.0		**28.6**	*	40-140			L-04
Acenaphthene	71.8	5.0	µg/L	100.0		71.8		40-140			
Acenaphthylene	79.0	5.0	µg/L	100.0		79.0		40-140			
Acetophenone	67.9	10	µg/L	100.0		67.9		40-140			
Aniline	65.6	20	µg/L	100.0		65.6		40-140			V-05
Anthracene	83.1	5.0	µg/L	100.0		83.1		40-140			
Benzo(a)anthracene	82.4	5.0	µg/L	100.0		82.4		40-140			
Benzo(a)pyrene	82.0	5.0	µg/L	100.0		82.0		40-140			
Benzo(b)fluoranthene	83.1	5.0	µg/L	100.0		83.1		40-140			
Benzo(g,h,i)perylene	90.1	5.0	µg/L	100.0		90.1		40-140			
Benzo(k)fluoranthene	83.6	5.0	µg/L	100.0		83.6		40-140			
Bis(2-chloroethoxy)methane	75.3	10	µg/L	100.0		75.3		40-140			
Bis(2-chloroethyl)ether	72.7	10	µg/L	100.0		72.7		40-140			
2,2'-oxybis(1-Chloropropane)	73.1	10	µg/L	100.0		73.1		40-140			
Bis(2-Ethylhexyl)phthalate	69.6	10	µg/L	100.0		69.6		40-140			
4-Bromophenylphenylether	81.7	10	µg/L	100.0		81.7		40-140			
Butylbenzylphthalate	77.6	10	µg/L	100.0		77.6		40-140			
Carbazole	84.2	10	µg/L	100.0		84.2		40-140			
4-Chloroaniline	77.0	10	µg/L	100.0		77.0		40-140			
4-Chloro-3-methylphenol	70.3	10	µg/L	100.0		70.3		30-130			
2-Chloronaphthalene	66.4	10	µg/L	100.0		66.4		40-140			
2-Chlorophenol	73.1	10	µg/L	100.0		73.1		30-130			R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B393095 - SW-846 3510C												
LCS (B393095-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24								
4-Chlorophenylphenylether	72.1	10	µg/L	100.0		72.1		40-140				
Chrysene	79.4	5.0	µg/L	100.0		79.4		40-140				
Dibenz(a,h)anthracene	84.2	5.0	µg/L	100.0		84.2		40-140			V-04	
Dibenzofuran	78.6	5.0	µg/L	100.0		78.6		40-140				
Di-n-butylphthalate	70.2	10	µg/L	100.0		70.2		40-140				
3,3-Dichlorobenzidine	85.2	10	µg/L	100.0		85.2		40-140				
2,4-Dichlorophenol	80.0	10	µg/L	100.0		80.0		30-130			R-05	
Diethylphthalate	70.4	10	µg/L	100.0		70.4		40-140				
2,4-Dimethylphenol	71.3	10	µg/L	100.0		71.3		30-130				
Dimethylphthalate	77.3	10	µg/L	100.0		77.3		40-140				
4,6-Dinitro-2-methylphenol	73.8	20	µg/L	100.0		73.8		30-130				
2,4-Dinitrophenol	53.9	10	µg/L	100.0		53.9		30-130			V-04, R-05	
2,4-Dinitrotoluene	78.8	10	µg/L	100.0		78.8		40-140				
2,6-Dinitrotoluene	80.1	10	µg/L	100.0		80.1		40-140				
Di-n-octylphthalate	65.6	10	µg/L	100.0		65.6		40-140			V-04	
Fluoranthene	82.0	5.0	µg/L	100.0		82.0		40-140				
Fluorene	76.4	5.0	µg/L	100.0		76.4		40-140				
Hexachlorobenzene	86.2	10	µg/L	100.0		86.2		40-140				
Hexachlorobutadiene	47.4	10	µg/L	100.0		47.4		40-140			R-05	
Hexachlorocyclopentadiene	59.4	10	µg/L	100.0		59.4		30-140			V-06	†
Hexachloroethane	39.0	10	µg/L	100.0		**39.0**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	88.5	5.0	µg/L	100.0		88.5		40-140			V-04	
Isophorone	77.5	10	µg/L	100.0		77.5		40-140				
1-Methylnaphthalene	61.6	5.0	µg/L	100.0		61.6		40-140			R-05	
2-Methylnaphthalene	58.3	5.0	µg/L	100.0		58.3		40-140			R-05	
2-Methylphenol	63.9	10	µg/L	100.0		63.9		30-130				
3/4-Methylphenol	60.4	10	µg/L	100.0		60.4		30-130				
Naphthalene	68.1	5.0	µg/L	100.0		68.1		40-140			R-05	
2-Nitroaniline	90.2	10	µg/L	100.0		90.2		40-140				
3-Nitroaniline	76.9	10	µg/L	100.0		76.9		40-140				
4-Nitroaniline	72.9	10	µg/L	100.0		72.9		40-140				
Nitrobenzene	84.8	10	µg/L	100.0		84.8		40-140				
2-Nitrophenol	78.0	10	µg/L	100.0		78.0		30-130			R-05	
4-Nitrophenol	41.3	10	µg/L	100.0		41.3		10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	83.3	10	µg/L	100.0		83.3		40-140				
N-Nitrosodi-n-propylamine	65.2	10	µg/L	100.0		65.2		40-140				
Pentachlorophenol	69.7	10	µg/L	100.0		69.7		30-130				
Phenanthrene	81.4	5.0	µg/L	100.0		81.4		40-140				
Phenol	38.0	10	µg/L	100.0		38.0		20-130				†
Pyrene	85.7	5.0	µg/L	100.0		85.7		40-140				
Pyridine	20.4	20	µg/L	100.0		20.4		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	73.1	10	µg/L	100.0		73.1		40-140			R-05	
2,4,5-Trichlorophenol	85.1	10	µg/L	100.0		85.1		30-130			R-05	
2,4,6-Trichlorophenol	83.2	10	µg/L	100.0		83.2		30-130				
Surrogate: 2-Fluorophenol	*243*		µg/L	400.0		60.6		15-110				
Surrogate: Phenol-d6	*162*		µg/L	400.0		40.5		15-110				
Surrogate: Nitrobenzene-d5	*187*		µg/L	200.0		93.5		30-130				
Surrogate: 2-Fluorobiphenyl	*168*		µg/L	200.0		84.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*356*		µg/L	400.0		89.1		15-110				
Surrogate: p-Terphenyl-d14	*183*		µg/L	200.0		91.6		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B393095 - SW-846 3510C													
LCS Dup (B393095-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24									
2,3,4,6-Tetrachlorophenol	55.2	20	µg/L	100.0		55.2		40-140	**44.8**	*	20	R-05	
Atrazine	86.7	20	µg/L	100.0		86.7		40-140	7.91		20		
Benzaldehyde	69.7	10	µg/L	100.0		69.7		40-140	11.6		20		
Biphenyl	60.4	20	µg/L	100.0		60.4		40-140	18.4		20		
Caprolactam	24.2	10	µg/L	100.0		**24.2**	*	40-140	16.3		20	L-04	
Acenaphthene	60.5	5.0	µg/L	100.0		60.5		40-140	17.2		20		
Acenaphthylene	66.7	5.0	µg/L	100.0		66.7		40-140	16.9		20		
Acetophenone	60.8	10	µg/L	100.0		60.8		40-140	11.0		20		
Aniline	56.7	20	µg/L	100.0		56.7		40-140	14.5		50	V-05	‡
Anthracene	76.3	5.0	µg/L	100.0		76.3		40-140	8.61		20		
Benzo(a)anthracene	75.8	5.0	µg/L	100.0		75.8		40-140	8.34		20		
Benzo(a)pyrene	76.3	5.0	µg/L	100.0		76.3		40-140	7.20		20		
Benzo(b)fluoranthene	77.9	5.0	µg/L	100.0		77.9		40-140	6.46		20		
Benzo(g,h,i)perylene	87.0	5.0	µg/L	100.0		87.0		40-140	3.56		20		
Benzo(k)fluoranthene	79.3	5.0	µg/L	100.0		79.3		40-140	5.27		20		
Bis(2-chloroethoxy)methane	68.5	10	µg/L	100.0		68.5		40-140	9.44		20		
Bis(2-chloroethyl)ether	65.4	10	µg/L	100.0		65.4		40-140	10.6		20		
2,2'-oxybis(1-Chloropropane)	63.5	10	µg/L	100.0		63.5		40-140	14.0		20		
Bis(2-Ethylhexyl)phthalate	65.5	10	µg/L	100.0		65.5		40-140	6.01		20		
4-Bromophenylphenylether	74.9	10	µg/L	100.0		74.9		40-140	8.65		20		
Butylbenzylphthalate	70.6	10	µg/L	100.0		70.6		40-140	9.48		20		
Carbazole	80.0	10	µg/L	100.0		80.0		40-140	5.15		20		
4-Chloroaniline	68.0	10	µg/L	100.0		68.0		40-140	12.4		20		
4-Chloro-3-methylphenol	64.3	10	µg/L	100.0		64.3		30-130	8.85		20		
2-Chloronaphthalene	56.8	10	µg/L	100.0		56.8		40-140	15.5		20		
2-Chlorophenol	53.8	10	µg/L	100.0		53.8		30-130	**30.4**	*	20	R-05	
4-Chlorophenylphenylether	66.4	10	µg/L	100.0		66.4		40-140	8.26		20		
Chrysene	75.7	5.0	µg/L	100.0		75.7		40-140	4.81		20		
Dibenz(a,h)anthracene	80.7	5.0	µg/L	100.0		80.7		40-140	4.27		20	V-04	
Dibenzofuran	68.6	5.0	µg/L	100.0		68.6		40-140	13.5		20		
Di-n-butylphthalate	65.9	10	µg/L	100.0		65.9		40-140	6.44		20		
3,3-Dichlorobenzidine	78.8	10	µg/L	100.0		78.8		40-140	7.72		20		
2,4-Dichlorophenol	60.9	10	µg/L	100.0		60.9		30-130	**27.1**	*	20	R-05	
Diethylphthalate	66.1	10	µg/L	100.0		66.1		40-140	6.26		20		
2,4-Dimethylphenol	62.7	10	µg/L	100.0		62.7		30-130	12.8		20		
Dimethylphthalate	71.8	10	µg/L	100.0		71.8		40-140	7.43		50		‡
4,6-Dinitro-2-methylphenol	50.0	20	µg/L	100.0		50.0		30-130	38.3		50		‡
2,4-Dinitrophenol	21.8	10	µg/L	100.0		**21.8**	*	30-130	**84.9**	*	50	L-07A, V-04	‡
2,4-Dinitrotoluene	71.2	10	µg/L	100.0		71.2		40-140	10.1		20		
2,6-Dinitrotoluene	74.3	10	µg/L	100.0		74.3		40-140	7.51		20		
Di-n-octylphthalate	60.7	10	µg/L	100.0		60.7		40-140	7.82		20	V-04	
Fluoranthene	76.8	5.0	µg/L	100.0		76.8		40-140	6.53		20		
Fluorene	69.3	5.0	µg/L	100.0		69.3		40-140	9.77		20		
Hexachlorobenzene	79.4	10	µg/L	100.0		79.4		40-140	8.16		20		
Hexachlorobutadiene	36.9	10	µg/L	100.0		**36.9**	*	40-140	**24.9**	*	20	L-07A	
Hexachlorocyclopentadiene	44.1	10	µg/L	100.0		44.1		30-140	29.6		50	V-06	† ‡
Hexachloroethane	38.2	10	µg/L	100.0		**38.2**	*	40-140	1.97		50	L-04	‡
Indeno(1,2,3-cd)pyrene	85.8	5.0	µg/L	100.0		85.8		40-140	3.10		50	V-04	‡
Isophorone	69.6	10	µg/L	100.0		69.6		40-140	10.8		20		
1-Methylnaphthalene	50.4	5.0	µg/L	100.0		50.4		40-140	20.0		20	R-05	
2-Methylnaphthalene	45.8	5.0	µg/L	100.0		45.8		40-140	**24.1**	*	20	R-05	
2-Methylphenol	58.1	10	µg/L	100.0		58.1		30-130	9.50		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B393095 - SW-846 3510C												
LCS Dup (B393095-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24								
3/4-Methylphenol	53.8	10	µg/L	100.0		53.8	30-130	11.6		20		
Naphthalene	54.4	5.0	µg/L	100.0		54.4	40-140	**22.3**	*	20	R-05	
2-Nitroaniline	81.8	10	µg/L	100.0		81.8	40-140	9.83		20		
3-Nitroaniline	71.7	10	µg/L	100.0		71.7	40-140	7.11		20		
4-Nitroaniline	71.1	10	µg/L	100.0		71.1	40-140	2.45		20		
Nitrobenzene	70.2	10	µg/L	100.0		70.2	40-140	18.9		20		
2-Nitrophenol	57.1	10	µg/L	100.0		57.1	30-130	**30.9**	*	20	R-05	
4-Nitrophenol	23.8	10	µg/L	100.0		23.8	10-130	**53.6**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	74.8	10	µg/L	100.0		74.8	40-140	10.8		20		
N-Nitrosodi-n-propylamine	56.7	10	µg/L	100.0		56.7	40-140	14.0		20		
Pentachlorophenol	42.1	10	µg/L	100.0		42.1	30-130	49.3		50		‡
Phenanthrene	75.1	5.0	µg/L	100.0		75.1	40-140	8.07		20		
Phenol	31.7	10	µg/L	100.0		31.7	20-130	18.0		20		†
Pyrene	77.7	5.0	µg/L	100.0		77.7	40-140	9.82		20		
Pyridine	18.1	20	µg/L	100.0		18.1	10-140	11.9		50	V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	56.8	10	µg/L	100.0		56.8	40-140	**25.0**	*	20	R-05	
2,4,5-Trichlorophenol	62.0	10	µg/L	100.0		62.0	30-130	**31.4**	*	20	R-05	
2,4,6-Trichlorophenol	55.3	10	µg/L	100.0		55.3	30-130	40.2		50		‡
Surrogate: 2-Fluorophenol	*155*		µg/L	400.0		38.7	15-110					
Surrogate: Phenol-d6	*126*		µg/L	400.0		31.4	15-110					
Surrogate: Nitrobenzene-d5	*154*		µg/L	200.0		77.0	30-130					
Surrogate: 2-Fluorobiphenyl	*142*		µg/L	200.0		70.8	30-130					
Surrogate: 2,4,6-Tribromophenol	*259*		µg/L	400.0		64.7	15-110					
Surrogate: p-Terphenyl-d14	*162*		µg/L	200.0		80.8	30-130					

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393150 - SW-846 3510C										
Blank (B393150-BLK1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.72*		µg/L	10.00		27.2	15-110			
LCS (B393150-BS1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	10.8	0.20	µg/L	10.00		108	40-140			
Surrogate: 1,4-Dioxane-d8	*2.87*		µg/L	10.00		28.7	15-110			
LCS Dup (B393150-BSD1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140	7.92	30	
Surrogate: 1,4-Dioxane-d8	*2.74*		µg/L	10.00		27.4	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393958 - EPA 1633										
Blank (B393958-BLK1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*88.0*		ng/L	78.94		111	5-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393958 - EPA 1633										
Blank (B393958-BLK1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Surrogate: 13C5-PFPeA	*43.4*		ng/L	39.47		110	40-130			
Surrogate: 13C5-PFHxA	*21.5*		ng/L	19.74		109	40-130			
Surrogate: 13C4-PFHpA	*21.6*		ng/L	19.74		109	40-130			
Surrogate: 13C8-PFOA	*22.7*		ng/L	19.74		115	40-130			
Surrogate: 13C9-PFNA	*10.4*		ng/L	9.868		105	40-130			
Surrogate: 13C6-PFDA	*11.0*		ng/L	9.868		111	40-130			
Surrogate: 13C7-PFUnA	*10.8*		ng/L	9.868		110	30-130			
Surrogate: 13C2-PFDoA	*10.2*		ng/L	9.868		103	10-130			
Surrogate: 13C2-PFTeDA	*9.70*		ng/L	9.868		98.3	10-130			
Surrogate: 13C3-PFBS	*22.1*		ng/L	19.74		112	40-135			
Surrogate: 13C3-PFHxS	*22.2*		ng/L	19.74		113	40-130			
Surrogate: 13C8-PFOS	*22.0*		ng/L	19.74		111	40-130			
Surrogate: 13C2-4:2FTS	*54.7*		ng/L	39.47		139	40-200			
Surrogate: 13C2-6:2FTS	*47.5*		ng/L	39.47		120	40-200			
Surrogate: 13C2-8:2FTS	*42.3*		ng/L	39.47		107	40-300			
Surrogate: 13C8-PFOSA	*19.0*		ng/L	19.74		96.0	40-130			
Surrogate: D3-NMeFOSA	*16.6*		ng/L	19.74		84.2	10-130			
Surrogate: D5-NEtFOSA	*16.4*		ng/L	19.74		83.3	10-130			
Surrogate: D3-NMeFOSAA	*42.7*		ng/L	39.47		108	40-170			
Surrogate: D5-NEtFOSAA	*43.6*		ng/L	39.47		111	25-135			
Surrogate: D7-NMeFOSE	*179*		ng/L	197.4		90.5	10-130			
Surrogate: D9-NEtFOSE	*177*		ng/L	197.4		89.7	10-130			
Surrogate: 13C3-HFPO-DA	*88.1*		ng/L	78.94		112	40-130			
LCS (B393958-BS1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	71.4	6.3	ng/L	79.32		90.0	70-140			
Perfluoropentanoic acid (PFPeA)	36.8	3.2	ng/L	39.66		92.7	65-135			
Perfluorohexanoic acid (PFHxA)	19.5	1.6	ng/L	19.83		98.2	70-145			
Perfluoroheptanoic acid (PFHpA)	17.6	1.6	ng/L	19.83		88.8	70-150			
Perfluorooctanoic acid (PFOA)	18.7	1.6	ng/L	19.83		94.3	70-150			
Perfluorononanoic acid (PFNA)	17.9	1.6	ng/L	19.83		90.1	70-150			
Perfluorodecanoic acid (PFDA)	19.3	1.6	ng/L	19.83		97.1	70-140			
Perfluoroundecanoic acid (PFUnA)	19.2	1.6	ng/L	19.83		97.0	70-145			
Perfluorododecanoic acid (PFDoA)	19.4	1.6	ng/L	19.83		98.1	70-140			
Perfluorotridecanoic acid (PFTrDA)	19.1	1.6	ng/L	19.83		96.1	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.3	1.6	ng/L	19.83		97.1	60-140			
Perfluorobutanesulfonic acid (PFBS)	16.9	1.6	ng/L	17.61		95.8	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.3	1.6	ng/L	18.64		93.0	65-140			
Perfluorohexanesulfonic acid (PFHxS)	16.1	1.6	ng/L	18.08		89.1	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	17.7	1.6	ng/L	18.88		93.6	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.0	1.6	ng/L	18.40		92.3	55-150			
Perfluorononanesulfonic acid (PFNS)	18.0	1.6	ng/L	19.04		94.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.9	1.6	ng/L	19.12		93.8	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.9	1.6	ng/L	19.19		83.0	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	73.4	6.3	ng/L	74.32		98.7	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	76.2	6.3	ng/L	75.43		101	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	74.1	6.3	ng/L	76.14		97.3	60-150			
Perfluorooctanesulfonamide (PFOSA)	18.4	1.6	ng/L	19.83		92.8	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	18.7	1.6	ng/L	19.83		94.5	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393958 - EPA 1633										
LCS (B393958-BS1)				Prepared: 12/11/24 Analyzed: 12/14/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.1	1.6	ng/L	19.83		96.1	65-145			
N-MeFOSAA (NMeFOSAA)	18.9	1.6	ng/L	19.83		95.4	50-140			
N-EtFOSAA (NEtFOSAA)	17.8	1.6	ng/L	19.83		89.9	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	189	16	ng/L	198.3		95.1	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	187	16	ng/L	198.3		94.5	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.7	6.3	ng/L	79.32		101	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	68.9	6.3	ng/L	74.95		91.9	65-145			
9Cl-PF3ONS (F53B Minor)	69.3	6.3	ng/L	74.00		93.6	70-155			
11Cl-PF3OUdS (F53B Major)	66.5	6.3	ng/L	74.08		89.8	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	82.2	7.9	ng/L	99.15		82.9	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	418	40	ng/L	495.7		84.3	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	404	40	ng/L	495.7		81.4	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	35.2	3.2	ng/L	35.38		99.4	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	36.5	3.2	ng/L	39.66		91.9	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	37.3	3.2	ng/L	39.66		94.1	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	41.4	3.2	ng/L	39.66		104	50-150			
Surrogate: 13C4-PFBA	*87.1*		ng/L	79.32		110	5-130			
Surrogate: 13C5-PFPeA	*42.6*		ng/L	39.66		107	40-130			
Surrogate: 13C5-PFHxA	*21.0*		ng/L	19.83		106	40-130			
Surrogate: 13C4-PFHpA	*21.1*		ng/L	19.83		107	40-130			
Surrogate: 13C8-PFOA	*21.4*		ng/L	19.83		108	40-130			
Surrogate: 13C9-PFNA	*10.8*		ng/L	9.915		109	40-130			
Surrogate: 13C6-PFDA	*11.3*		ng/L	9.915		114	40-130			
Surrogate: 13C7-PFUnA	*10.9*		ng/L	9.915		110	30-130			
Surrogate: 13C2-PFDoA	*9.92*		ng/L	9.915		100	10-130			
Surrogate: 13C2-PFTeDA	*9.44*		ng/L	9.915		95.2	10-130			
Surrogate: 13C3-PFBS	*21.6*		ng/L	19.83		109	40-135			
Surrogate: 13C3-PFHxS	*21.6*		ng/L	19.83		109	40-130			
Surrogate: 13C8-PFOS	*20.9*		ng/L	19.83		106	40-130			
Surrogate: 13C2-4:2FTS	*45.5*		ng/L	39.66		115	40-200			
Surrogate: 13C2-6:2FTS	*43.3*		ng/L	39.66		109	40-200			
Surrogate: 13C2-8:2FTS	*40.0*		ng/L	39.66		101	40-300			
Surrogate: 13C8-PFOSA	*18.2*		ng/L	19.83		91.7	40-130			
Surrogate: D3-NMeFOSA	*15.8*		ng/L	19.83		79.6	10-130			
Surrogate: D5-NEtFOSA	*15.0*		ng/L	19.83		75.8	10-130			
Surrogate: D3-NMeFOSAA	*43.1*		ng/L	39.66		109	40-170			
Surrogate: D5-NEtFOSAA	*40.2*		ng/L	39.66		101	25-135			
Surrogate: D7-NMeFOSE	*164*		ng/L	198.3		82.8	10-130			
Surrogate: D9-NEtFOSE	*162*		ng/L	198.3		81.8	10-130			
Surrogate: 13C3-HFPO-DA	*83.9*		ng/L	79.32		106	40-130			
MRL Check (B393958-MRL1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	13.4	6.3	ng/L	12.67		105	70-140			
Perfluoropentanoic acid (PFPeA)	6.56	3.2	ng/L	6.335		104	65-135			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393958 - EPA 1633										
MRL Check (B393958-MRL1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Perfluorohexanoic acid (PFHxA)	3.49	1.6	ng/L	3.167		110	70-145			
Perfluoroheptanoic acid (PFHpA)	3.24	1.6	ng/L	3.167		102	70-150			
Perfluorooctanoic acid (PFOA)	3.51	1.6	ng/L	3.167		111	70-150			
Perfluorononanoic acid (PFNA)	3.38	1.6	ng/L	3.167		107	70-150			
Perfluorodecanoic acid (PFDA)	3.46	1.6	ng/L	3.167		109	70-140			
Perfluoroundecanoic acid (PFUnA)	3.26	1.6	ng/L	3.167		103	70-145			
Perfluorododecanoic acid (PFDoA)	3.38	1.6	ng/L	3.167		107	70-140			
Perfluorotridecanoic acid (PFTrDA)	3.22	1.6	ng/L	3.167		102	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.35	1.6	ng/L	3.167		106	60-140			
Perfluorobutanesulfonic acid (PFBS)	3.02	1.6	ng/L	2.813		108	60-145			
Perfluoropentanesulfonic acid (PFPeS)	3.16	1.6	ng/L	2.977		106	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.93	1.6	ng/L	2.889		101	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.17	1.6	ng/L	3.015		105	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.93	1.6	ng/L	2.939		99.5	55-150			
Perfluorononanesulfonic acid (PFNS)	3.29	1.6	ng/L	3.041		108	65-145			
Perfluorodecanesulfonic acid (PFDS)	3.21	1.6	ng/L	3.053		105	60-145			
Perfluorododecanesulfonic acid (PFDoS)	3.05	1.6	ng/L	3.066		99.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	12.7	6.3	ng/L	11.87		107	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	13.3	6.3	ng/L	12.05		110	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.2	6.3	ng/L	12.16		108	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.46	1.6	ng/L	3.167		109	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.97	1.6	ng/L	3.167		93.8	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.28	1.6	ng/L	3.167		104	65-145			
N-MeFOSAA (NMeFOSAA)	2.86	1.6	ng/L	3.167		90.4	50-140			
N-EtFOSAA (NEtFOSAA)	2.73	1.6	ng/L	3.167		86.3	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	33.8	16	ng/L	31.67		107	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	33.8	16	ng/L	31.67		107	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.1	6.3	ng/L	12.67		111	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	12.7	6.3	ng/L	11.97		106	65-145			
9Cl-PF3ONS (F53B Minor)	12.7	6.3	ng/L	11.82		108	70-155			
11Cl-PF3OUdS (F53B Major)	12.6	6.3	ng/L	11.95		105	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.6	7.9	ng/L	15.84		85.9	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	74.9	40	ng/L	79.19		94.6	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	69.2	40	ng/L	79.19		87.3	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.38	3.2	ng/L	5.651		113	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.76	3.2	ng/L	6.335		107	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	7.18	3.2	ng/L	6.335		113	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.90	3.2	ng/L	6.335		125	50-150			
Surrogate: 13C4-PFBA	*84.5*		ng/L	79.19		107	5-130			
Surrogate: 13C5-PFPeA	*41.5*		ng/L	39.59		105	40-130			
Surrogate: 13C5-PFHxA	*20.6*		ng/L	19.80		104	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393958 - EPA 1633										
MRL Check (B393958-MRL1)				Prepared: 12/11/24 Analyzed: 12/14/24						
Surrogate: 13C4-PFHpA	*21.0*		ng/L	19.80		106	40-130			
Surrogate: 13C8-PFOA	*20.7*		ng/L	19.80		105	40-130			
Surrogate: 13C9-PFNA	*10.8*		ng/L	9.898		109	40-130			
Surrogate: 13C6-PFDA	*10.7*		ng/L	9.898		108	40-130			
Surrogate: 13C7-PFUnA	*10.6*		ng/L	9.898		107	30-130			
Surrogate: 13C2-PFDoA	*9.74*		ng/L	9.898		98.4	10-130			
Surrogate: 13C2-PFTeDA	*9.08*		ng/L	9.898		91.8	10-130			
Surrogate: 13C3-PFBS	*20.8*		ng/L	19.80		105	40-135			
Surrogate: 13C3-PFHxS	*20.9*		ng/L	19.80		105	40-130			
Surrogate: 13C8-PFOS	*20.6*		ng/L	19.80		104	40-130			
Surrogate: 13C2-4:2FTS	*46.0*		ng/L	39.59		116	40-200			
Surrogate: 13C2-6:2FTS	*44.5*		ng/L	39.59		112	40-200			
Surrogate: 13C2-8:2FTS	*39.1*		ng/L	39.59		98.7	40-300			
Surrogate: 13C8-PFOSA	*17.6*		ng/L	19.80		88.7	40-130			
Surrogate: D3-NMeFOSA	*16.0*		ng/L	19.80		80.9	10-130			
Surrogate: D5-NEtFOSA	*15.0*		ng/L	19.80		75.9	10-130			
Surrogate: D3-NMeFOSAA	*40.9*		ng/L	39.59		103	40-170			
Surrogate: D5-NEtFOSAA	*38.5*		ng/L	39.59		97.4	25-135			
Surrogate: D7-NMeFOSE	*164*		ng/L	198.0		82.9	10-130			
Surrogate: D9-NEtFOSE	*160*		ng/L	198.0		80.9	10-130			
Surrogate: 13C3-HFPO-DA	*85.3*		ng/L	79.19		108	40-130			
Batch B393961 - EPA 1633										
Blank (B393961-BLK1)				Prepared: 12/10/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393961 - EPA 1633										
Blank (B393961-BLK1)				Prepared: 12/10/24 Analyzed: 12/14/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*71.9*		ng/L	78.81		91.2	5-130			
Surrogate: 13C5-PFPeA	*34.2*		ng/L	39.40		86.9	40-130			
Surrogate: 13C5-PFHxA	*17.3*		ng/L	19.70		87.7	40-130			
Surrogate: 13C4-PFHpA	*16.4*		ng/L	19.70		83.3	40-130			
Surrogate: 13C8-PFOA	*18.3*		ng/L	19.70		92.8	40-130			
Surrogate: 13C9-PFNA	*8.21*		ng/L	9.851		83.3	40-130			
Surrogate: 13C6-PFDA	*9.05*		ng/L	9.851		91.9	40-130			
Surrogate: 13C7-PFUnA	*9.24*		ng/L	9.851		93.8	30-130			
Surrogate: 13C2-PFDoA	*8.81*		ng/L	9.851		89.4	10-130			
Surrogate: 13C2-PFTeDA	*9.00*		ng/L	9.851		91.3	10-130			
Surrogate: 13C3-PFBS	*18.2*		ng/L	19.70		92.2	40-135			
Surrogate: 13C3-PFHxS	*17.7*		ng/L	19.70		89.8	40-130			
Surrogate: 13C8-PFOS	*16.4*		ng/L	19.70		83.3	40-130			
Surrogate: 13C2-4:2FTS	*38.6*		ng/L	39.40		97.9	40-200			
Surrogate: 13C2-6:2FTS	*37.1*		ng/L	39.40		94.2	40-200			
Surrogate: 13C2-8:2FTS	*44.9*		ng/L	39.40		114	40-300			
Surrogate: 13C8-PFOSA	*14.9*		ng/L	19.70		75.8	40-130			
Surrogate: D3-NMeFOSA	*12.5*		ng/L	19.70		63.5	10-130			
Surrogate: D5-NEtFOSA	*12.2*		ng/L	19.70		61.9	10-130			
Surrogate: D3-NMeFOSAA	*38.1*		ng/L	39.40		96.8	40-170			
Surrogate: D5-NEtFOSAA	*40.3*		ng/L	39.40		102	25-135			
Surrogate: D7-NMeFOSE	*138*		ng/L	197.0		69.9	10-130			
Surrogate: D9-NEtFOSE	*133*		ng/L	197.0		67.4	10-130			
Surrogate: 13C3-HFPO-DA	*73.8*		ng/L	78.81		93.7	40-130			
LCS (B393961-BS1)				Prepared: 12/10/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	87.6	6.3	ng/L	78.99		111	70-140			
Perfluoropentanoic acid (PFPeA)	44.6	3.2	ng/L	39.49		113	65-135			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393961 - EPA 1633										
LCS (B393961-BS1)				Prepared: 12/10/24 Analyzed: 12/14/24						
Perfluorohexanoic acid (PFHxA)	23.1	1.6	ng/L	19.75		117	70-145			
Perfluoroheptanoic acid (PFHpA)	21.9	1.6	ng/L	19.75		111	70-150			
Perfluorooctanoic acid (PFOA)	22.4	1.6	ng/L	19.75		113	70-150			
Perfluorononanoic acid (PFNA)	22.0	1.6	ng/L	19.75		111	70-150			
Perfluorodecanoic acid (PFDA)	23.3	1.6	ng/L	19.75		118	70-140			
Perfluoroundecanoic acid (PFUnA)	21.8	1.6	ng/L	19.75		111	70-145			
Perfluorododecanoic acid (PFDoA)	23.4	1.6	ng/L	19.75		119	70-140			
Perfluorotridecanoic acid (PFTrDA)	24.1	1.6	ng/L	19.75		122	65-140			
Perfluorotetradecanoic acid (PFTeDA)	24.4	1.6	ng/L	19.75		124	60-140			
Perfluorobutanesulfonic acid (PFBS)	19.8	1.6	ng/L	19.75		100	60-145			
Perfluoropentanesulfonic acid (PFPeS)	22.8	1.6	ng/L	19.75		115	65-140			
Perfluorohexanesulfonic acid (PFHxS)	20.4	1.6	ng/L	19.75		104	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	22.4	1.6	ng/L	19.75		114	70-150			
Perfluorooctanesulfonic acid (PFOS)	20.7	1.6	ng/L	19.75		105	55-150			
Perfluorononanesulfonic acid (PFNS)	22.8	1.6	ng/L	19.75		116	65-145			
Perfluorodecanesulfonic acid (PFDS)	22.5	1.6	ng/L	19.75		114	60-145			
Perfluorododecanesulfonic acid (PFDoS)	21.3	1.6	ng/L	19.75		108	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	89.6	6.3	ng/L	78.99		113	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	91.3	6.3	ng/L	78.99		116	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	96.2	6.3	ng/L	78.99		122	60-150			
Perfluorooctanesulfonamide (PFOSA)	22.3	1.6	ng/L	19.75		113	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.7	1.6	ng/L	19.75		120	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.4	1.6	ng/L	19.75		118	65-145			
N-MeFOSAA (NMeFOSAA)	23.0	1.6	ng/L	19.75		116	50-140			
N-EtFOSAA (NEtFOSAA)	22.0	1.6	ng/L	19.75		111	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	228	16	ng/L	197.5		115	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	225	16	ng/L	197.5		114	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.1	6.3	ng/L	78.99		123	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	85.4	6.3	ng/L	78.99		108	65-145			
9Cl-PF3ONS (F53B Minor)	86.9	6.3	ng/L	78.99		110	70-155			
11Cl-PF3OUdS (F53B Major)	88.2	6.3	ng/L	78.99		112	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	102	7.9	ng/L	98.73		104	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	511	39	ng/L	493.7		104	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	528	39	ng/L	493.7		107	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	43.0	3.2	ng/L	39.49		109	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	44.0	3.2	ng/L	39.49		111	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	45.9	3.2	ng/L	39.49		116	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	48.7	3.2	ng/L	39.49		123	50-150			
Surrogate: 13C4-PFBA	*71.0*		ng/L	78.99		89.9	5-130			
Surrogate: 13C5-PFPeA	*35.3*		ng/L	39.49		89.4	40-130			
Surrogate: 13C5-PFHxA	*17.4*		ng/L	19.75		88.2	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393961 - EPA 1633										
LCS (B393961-BS1)				Prepared: 12/10/24 Analyzed: 12/14/24						
Surrogate: 13C4-PFHpA	*17.3*		ng/L	19.75		87.6	40-130			
Surrogate: 13C8-PFOA	*17.9*		ng/L	19.75		90.6	40-130			
Surrogate: 13C9-PFNA	*8.58*		ng/L	9.873		86.9	40-130			
Surrogate: 13C6-PFDA	*8.56*		ng/L	9.873		86.7	40-130			
Surrogate: 13C7-PFUnA	*9.18*		ng/L	9.873		93.0	30-130			
Surrogate: 13C2-PFDoA	*8.38*		ng/L	9.873		84.9	10-130			
Surrogate: 13C2-PFTeDA	*8.41*		ng/L	9.873		85.2	10-130			
Surrogate: 13C3-PFBS	*19.0*		ng/L	19.75		96.4	40-135			
Surrogate: 13C3-PFHxS	*17.2*		ng/L	19.75		87.2	40-130			
Surrogate: 13C8-PFOS	*17.6*		ng/L	19.75		89.1	40-130			
Surrogate: 13C2-4:2FTS	*37.7*		ng/L	39.49		95.5	40-200			
Surrogate: 13C2-6:2FTS	*36.1*		ng/L	39.49		91.4	40-200			
Surrogate: 13C2-8:2FTS	*34.0*		ng/L	39.49		86.1	40-300			
Surrogate: 13C8-PFOSA	*15.9*		ng/L	19.75		80.7	40-130			
Surrogate: D3-NMeFOSA	*13.5*		ng/L	19.75		68.3	10-130			
Surrogate: D5-NEtFOSA	*13.4*		ng/L	19.75		68.1	10-130			
Surrogate: D3-NMeFOSAA	*33.7*		ng/L	39.49		85.2	40-170			
Surrogate: D5-NEtFOSAA	*33.9*		ng/L	39.49		85.9	25-135			
Surrogate: D7-NMeFOSE	*150*		ng/L	197.5		76.1	10-130			
Surrogate: D9-NEtFOSE	*151*		ng/L	197.5		76.6	10-130			
Surrogate: 13C3-HFPO-DA	*72.3*		ng/L	78.99		91.5	40-130			
MRL Check (B393961-MRL1)				Prepared: 12/10/24 Analyzed: 12/14/24						
Perfluorobutanoic acid (PFBA)	12.5	6.3	ng/L	12.59		99.4	70-140			
Perfluoropentanoic acid (PFPeA)	6.14	3.1	ng/L	6.297		97.5	65-135			
Perfluorohexanoic acid (PFHxA)	3.23	1.6	ng/L	3.148		102	70-145			
Perfluoroheptanoic acid (PFHpA)	3.24	1.6	ng/L	3.148		103	70-150			
Perfluorooctanoic acid (PFOA)	3.39	1.6	ng/L	3.148		108	70-150			
Perfluorononanoic acid (PFNA)	3.34	1.6	ng/L	3.148		106	70-150			
Perfluorodecanoic acid (PFDA)	3.08	1.6	ng/L	3.148		97.8	70-140			
Perfluoroundecanoic acid (PFUnA)	3.43	1.6	ng/L	3.148		109	70-145			
Perfluorododecanoic acid (PFDoA)	3.13	1.6	ng/L	3.148		99.3	70-140			
Perfluorotridecanoic acid (PFTrDA)	3.18	1.6	ng/L	3.148		101	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.16	1.6	ng/L	3.148		100	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.70	1.6	ng/L	2.796		96.7	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.88	1.6	ng/L	2.960		97.4	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.80	1.6	ng/L	2.871		97.5	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.90	1.6	ng/L	2.997		96.7	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.96	1.6	ng/L	2.922		101	55-150			
Perfluorononanesulfonic acid (PFNS)	2.94	1.6	ng/L	3.022		97.3	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.90	1.6	ng/L	3.035		95.4	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.97	1.6	ng/L	3.048		97.5	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.5	6.3	ng/L	11.80		97.7	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	12.2	6.3	ng/L	11.98		102	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.9	6.3	ng/L	12.09		115	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.21	1.6	ng/L	3.148		102	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	3.40	1.6	ng/L	3.148		108	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.75	1.6	ng/L	3.148		119	65-145			
N-MeFOSAA (NMeFOSAA)	3.27	1.6	ng/L	3.148		104	50-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393961 - EPA 1633										
MRL Check (B393961-MRL1)				Prepared: 12/10/24 Analyzed: 12/14/24						
N-EtFOSAA (NEtFOSAA)	3.09	1.6	ng/L	3.148		98.1	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	33.1	16	ng/L	31.48		105	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	32.2	16	ng/L	31.48		102	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.2	6.3	ng/L	12.59		113	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.2	6.3	ng/L	11.90		111	65-145			
9Cl-PF3ONS (F53B Minor)	12.6	6.3	ng/L	11.75		107	70-155			
11Cl-PF3OUdS (F53B Major)	12.0	6.3	ng/L	11.88		101	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	12.7	7.9	ng/L	15.74		80.5	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	69.6	39	ng/L	78.71		88.4	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	73.0	39	ng/L	78.71		92.7	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.98	3.1	ng/L	5.617		106	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.42	3.1	ng/L	6.297		102	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	6.92	3.1	ng/L	6.297		110	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.08	3.1	ng/L	6.297		112	50-150			
Surrogate: 13C4-PFBA	*74.7*		ng/L	78.71		94.9	5-130			
Surrogate: 13C5-PFPeA	*38.2*		ng/L	39.36		97.0	40-130			
Surrogate: 13C5-PFHxA	*19.2*		ng/L	19.68		97.4	40-130			
Surrogate: 13C4-PFHpA	*17.8*		ng/L	19.68		90.5	40-130			
Surrogate: 13C8-PFOA	*17.8*		ng/L	19.68		90.4	40-130			
Surrogate: 13C9-PFNA	*8.76*		ng/L	9.839		89.1	40-130			
Surrogate: 13C6-PFDA	*9.17*		ng/L	9.839		93.2	40-130			
Surrogate: 13C7-PFUnA	*9.26*		ng/L	9.839		94.1	30-130			
Surrogate: 13C2-PFDoA	*9.00*		ng/L	9.839		91.5	10-130			
Surrogate: 13C2-PFTeDA	*9.11*		ng/L	9.839		92.6	10-130			
Surrogate: 13C3-PFBS	*18.3*		ng/L	19.68		93.2	40-135			
Surrogate: 13C3-PFHxS	*18.1*		ng/L	19.68		91.7	40-130			
Surrogate: 13C8-PFOS	*17.6*		ng/L	19.68		89.2	40-130			
Surrogate: 13C2-4:2FTS	*40.0*		ng/L	39.36		102	40-200			
Surrogate: 13C2-6:2FTS	*38.2*		ng/L	39.36		97.0	40-200			
Surrogate: 13C2-8:2FTS	*35.0*		ng/L	39.36		88.9	40-300			
Surrogate: 13C8-PFOSA	*14.9*		ng/L	19.68		75.7	40-130			
Surrogate: D3-NMeFOSA	*13.7*		ng/L	19.68		69.7	10-130			
Surrogate: D5-NEtFOSA	*13.1*		ng/L	19.68		66.6	10-130			
Surrogate: D3-NMeFOSAA	*34.8*		ng/L	39.36		88.3	40-170			
Surrogate: D5-NEtFOSAA	*35.2*		ng/L	39.36		89.3	25-135			
Surrogate: D7-NMeFOSE	*142*		ng/L	196.8		72.2	10-130			
Surrogate: D9-NEtFOSE	*144*		ng/L	196.8		73.0	10-130			
Surrogate: 13C3-HFPO-DA	*78.2*		ng/L	78.71		99.3	40-130			

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C										
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
Blank (B393097-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							V-05
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*3.40*		µg/L	4.000		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.28*		µg/L	4.000		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.80*		µg/L	4.000		70.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.71*		µg/L	4.000		67.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
LCS (B393097-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	1.9	0.050	µg/L	2.000		96.3	0-200			
alpha-Chlordane [2C]	1.7	0.050	µg/L	2.000		87.0	0-200			
gamma-Chlordane	1.8	0.050	µg/L	2.000		92.3	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		87.4	0-200			
Aldrin	1.7	0.050	µg/L	2.000		84.4	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.000		76.5	40-140			
alpha-BHC	1.8	0.050	µg/L	2.000		88.0	40-140			
alpha-BHC [2C]	1.6	0.050	µg/L	2.000		82.5	40-140			
beta-BHC	1.9	0.050	µg/L	2.000		94.9	40-140			
beta-BHC [2C]	1.8	0.050	µg/L	2.000		87.5	40-140			
delta-BHC	1.7	0.050	µg/L	2.000		84.0	40-140			
delta-BHC [2C]	1.5	0.050	µg/L	2.000		76.2	40-140			
gamma-BHC (Lindane)	1.8	0.030	µg/L	2.000		88.3	40-140			
gamma-BHC (Lindane) [2C]	1.6	0.030	µg/L	2.000		81.2	40-140			
4,4'-DDD	2.1	0.040	µg/L	2.000		104	40-140			
4,4'-DDD [2C]	1.9	0.040	µg/L	2.000		94.5	40-140			
4,4'-DDE	2.0	0.040	µg/L	2.000		101	40-140			
4,4'-DDE [2C]	1.8	0.040	µg/L	2.000		90.5	40-140			
4,4'-DDT	1.9	0.040	µg/L	2.000		94.0	40-140			
4,4'-DDT [2C]	1.7	0.040	µg/L	2.000		83.0	40-140			
Dieldrin	1.9	0.0020	µg/L	2.000		94.5	40-140			
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		86.0	40-140			
Endosulfan I	1.9	0.050	µg/L	2.000		96.1	40-140			
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		86.1	40-140			
Endosulfan II	2.0	0.080	µg/L	2.000		99.0	40-140			
Endosulfan II [2C]	1.8	0.080	µg/L	2.000		89.0	40-140			
Endosulfan Sulfate	1.9	0.080	µg/L	2.000		94.4	40-140			
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.000		85.9	40-140			
Endrin	2.0	0.080	µg/L	2.000		97.8	40-140			
Endrin [2C]	1.7	0.080	µg/L	2.000		87.2	40-140			
Endrin Aldehyde	1.7	0.080	µg/L	2.000		85.8	40-140			
Endrin Aldehyde [2C]	1.6	0.080	µg/L	2.000		77.8	40-140			
Endrin Ketone	1.9	0.080	µg/L	2.000		93.6	40-140			
Endrin Ketone [2C]	1.7	0.080	µg/L	2.000		85.8	40-140			
Heptachlor	1.7	0.050	µg/L	2.000		83.5	40-140			
Heptachlor [2C]	1.6	0.050	µg/L	2.000		77.6	40-140			
Heptachlor Epoxide	1.9	0.050	µg/L	2.000		93.3	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		84.3	40-140			
Methoxychlor	1.7	0.50	µg/L	2.000		86.9	40-140			
Methoxychlor [2C]	1.5	0.50	µg/L	2.000		77.5	40-140			V-05
Surrogate: Decachlorobiphenyl	*3.75*		µg/L	4.000		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.60*		µg/L	4.000		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	*3.09*		µg/L	4.000		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.87*		µg/L	4.000		71.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
LCS Dup (B393097-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	2.1	0.050	µg/L	2.000		107	0-200	11.0		
alpha-Chlordane [2C]	1.9	0.050	µg/L	2.000		97.3	0-200	11.1		
gamma-Chlordane	2.1	0.050	µg/L	2.000		103	0-200	11.2		
gamma-Chlordane [2C]	2.0	0.050	µg/L	2.000		97.7	0-200	11.1		
Aldrin	2.0	0.050	µg/L	2.000		99.4	40-140	16.3	20	
Aldrin [2C]	1.8	0.050	µg/L	2.000		89.5	40-140	15.6	20	
alpha-BHC	2.1	0.050	µg/L	2.000		106	40-140	18.7	20	
alpha-BHC [2C]	2.0	0.050	µg/L	2.000		98.4	40-140	17.6	20	
beta-BHC	2.1	0.050	µg/L	2.000		107	40-140	12.0	20	
beta-BHC [2C]	2.0	0.050	µg/L	2.000		98.6	40-140	11.8	20	
delta-BHC	1.9	0.050	µg/L	2.000		94.6	40-140	11.8	20	
delta-BHC [2C]	1.7	0.050	µg/L	2.000		85.7	40-140	11.7	20	
gamma-BHC (Lindane)	2.1	0.030	µg/L	2.000		104	40-140	16.5	20	
gamma-BHC (Lindane) [2C]	1.9	0.030	µg/L	2.000		95.1	40-140	15.7	20	
4,4'-DDD	2.2	0.040	µg/L	2.000		112	40-140	7.38	20	
4,4'-DDD [2C]	2.0	0.040	µg/L	2.000		102	40-140	7.44	20	
4,4'-DDE	2.2	0.040	µg/L	2.000		110	40-140	8.38	20	
4,4'-DDE [2C]	2.0	0.040	µg/L	2.000		98.0	40-140	7.88	20	
4,4'-DDT	2.0	0.040	µg/L	2.000		101	40-140	7.62	20	
4,4'-DDT [2C]	1.8	0.040	µg/L	2.000		89.0	40-140	6.98	20	
Dieldrin	2.1	0.0020	µg/L	2.000		104	40-140	9.81	20	
Dieldrin [2C]	1.9	0.0020	µg/L	2.000		94.2	40-140	9.18	20	
Endosulfan I	2.1	0.050	µg/L	2.000		107	40-140	10.5	20	
Endosulfan I [2C]	1.9	0.050	µg/L	2.000		94.8	40-140	9.68	20	
Endosulfan II	2.1	0.080	µg/L	2.000		107	40-140	7.92	20	
Endosulfan II [2C]	1.9	0.080	µg/L	2.000		96.2	40-140	7.76	20	
Endosulfan Sulfate	2.0	0.080	µg/L	2.000		102	40-140	7.97	20	
Endosulfan Sulfate [2C]	1.8	0.080	µg/L	2.000		92.2	40-140	7.15	20	
Endrin	2.1	0.080	µg/L	2.000		107	40-140	9.31	20	
Endrin [2C]	1.9	0.080	µg/L	2.000		95.4	40-140	8.90	20	
Endrin Aldehyde	1.9	0.080	µg/L	2.000		93.2	40-140	8.28	20	
Endrin Aldehyde [2C]	1.7	0.080	µg/L	2.000		83.9	40-140	7.57	20	
Endrin Ketone	2.0	0.080	µg/L	2.000		101	40-140	7.49	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.000		92.1	40-140	7.02	20	
Heptachlor	2.0	0.050	µg/L	2.000		99.0	40-140	16.9	20	
Heptachlor [2C]	1.8	0.050	µg/L	2.000		91.5	40-140	16.5	20	
Heptachlor Epoxide	2.1	0.050	µg/L	2.000		105	40-140	11.9	20	
Heptachlor Epoxide [2C]	1.9	0.050	µg/L	2.000		94.3	40-140	11.2	20	
Methoxychlor	1.9	0.50	µg/L	2.000		93.7	40-140	7.47	20	
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		83.1	40-140	7.05	20	V-05
Surrogate: Decachlorobiphenyl	*3.58*		µg/L	4.000		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.45*		µg/L	4.000		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.33*		µg/L	4.000		83.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.06*		µg/L	4.000		76.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393096 - SW-846 3510C										
Blank (B393096-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*3.14*		µg/L	4.000		78.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.56*		µg/L	4.000		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.49*		µg/L	4.000		62.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.78*		µg/L	4.000		69.4	30-150			
LCS (B393096-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	0.82	0.20	µg/L	1.000		82.2	40-140			
Aroclor-1016 [2C]	0.75	0.20	µg/L	1.000		75.2	40-140			
Aroclor-1260	0.89	0.20	µg/L	1.000		89.4	40-140			
Aroclor-1260 [2C]	0.79	0.20	µg/L	1.000		79.2	40-140			
Surrogate: Decachlorobiphenyl	*2.80*		µg/L	4.000		69.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.18*		µg/L	4.000		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.68*		µg/L	4.000		67.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.04*		µg/L	4.000		76.0	30-150			
LCS Dup (B393096-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	0.90	0.20	µg/L	1.000		89.9	40-140	8.95	20	
Aroclor-1016 [2C]	0.82	0.20	µg/L	1.000		82.2	40-140	8.97	20	
Aroclor-1260	0.96	0.20	µg/L	1.000		96.1	40-140	7.25	20	
Aroclor-1260 [2C]	0.86	0.20	µg/L	1.000		85.7	40-140	7.86	20	
Surrogate: Decachlorobiphenyl	*2.86*		µg/L	4.000		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.22*		µg/L	4.000		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.99*		µg/L	4.000		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.36*		µg/L	4.000		84.1	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393620 - SW-846 7470A Prep										
Blank (B393620-BLK1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	ND	0.00020	mg/L							
LCS (B393620-BS1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	0.00350	0.00020	mg/L	0.004020		87.0	80-120			
LCS Dup (B393620-BSD1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	0.00365	0.00020	mg/L	0.004020		90.8	80-120	4.29	20	
Batch B393730 - SW-846 3005A										
Blank (B393730-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	0.0048	0.010	mg/L							B, J
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B393730-BLK2)				Prepared: 11/27/24 Analyzed: 12/20/24						
Arsenic	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
LCS (B393730-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Aluminum	0.524	0.050	mg/L	0.5000		105	80-120			
Antimony	0.533	0.050	mg/L	0.5000		107	80-120			
Barium	0.509	0.050	mg/L	0.5000		102	80-120			
Beryllium	0.556	0.0040	mg/L	0.5000		111	80-120			
Cadmium	0.536	0.0040	mg/L	0.5000		107	80-120			
Calcium	4.31	0.50	mg/L	4.000		108	80-120			
Chromium	0.533	0.010	mg/L	0.5000		107	80-120			
Cobalt	0.542	0.010	mg/L	0.5000		108	80-120			
Iron	4.32	0.050	mg/L	4.000		108	80-120			
Lead	0.569	0.010	mg/L	0.5000		114	80-120			
Magnesium	4.21	0.050	mg/L	4.000		105	80-120			
Manganese	0.522	0.010	mg/L	0.5000		104	80-120			
Nickel	0.510	0.010	mg/L	0.5000		102	80-120			
Potassium	4.21	2.0	mg/L	4.000		105	80-120			
Selenium	0.521	0.050	mg/L	0.5000		104	80-120			
Silver	0.593	0.010	mg/L	0.5000		119	80-120			
Sodium	4.22	2.0	mg/L	4.000		105	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393730 - SW-846 3005A										
LCS (B393730-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Thallium	0.525	0.050	mg/L	0.5000		105	80-120			
Vanadium	0.568	0.010	mg/L	0.5000		114	80-120			
Zinc	1.10	0.010	mg/L	1.000		110	80-120			
LCS (B393730-BS2)				Prepared: 11/27/24 Analyzed: 12/20/24						
Arsenic	0.493	0.010	mg/L	0.5000		98.7	80-120			
Copper	1.04	0.010	mg/L	1.000		104	80-120			
LCS Dup (B393730-BSD1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Aluminum	0.536	0.050	mg/L	0.5000		107	80-120	2.31	30	
Antimony	0.532	0.050	mg/L	0.5000		106	80-120	0.238	20	
Barium	0.512	0.050	mg/L	0.5000		102	80-120	0.683	20	
Beryllium	0.559	0.0040	mg/L	0.5000		112	80-120	0.537	20	
Cadmium	0.536	0.0040	mg/L	0.5000		107	80-120	0.0299	20	
Calcium	4.40	0.50	mg/L	4.000		110	80-120	2.09	20	
Chromium	0.534	0.010	mg/L	0.5000		107	80-120	0.205	20	
Cobalt	0.541	0.010	mg/L	0.5000		108	80-120	0.186	20	
Iron	4.42	0.050	mg/L	4.000		110	80-120	2.12	20	
Lead	0.567	0.010	mg/L	0.5000		113	80-120	0.245	20	
Magnesium	4.23	0.050	mg/L	4.000		106	80-120	0.451	20	
Manganese	0.534	0.010	mg/L	0.5000		107	80-120	2.26	20	
Nickel	0.513	0.010	mg/L	0.5000		103	80-120	0.560	30	
Potassium	4.25	2.0	mg/L	4.000		106	80-120	1.06	20	
Selenium	0.520	0.050	mg/L	0.5000		104	80-120	0.313	20	
Silver	0.593	0.010	mg/L	0.5000		119	80-120	0.0905	20	
Sodium	4.23	2.0	mg/L	4.000		106	80-120	0.269	20	
Thallium	0.526	0.050	mg/L	0.5000		105	80-120	0.318	20	
Vanadium	0.564	0.010	mg/L	0.5000		113	80-120	0.656	20	
Zinc	1.10	0.010	mg/L	1.000		110	80-120	0.0323	20	
LCS Dup (B393730-BSD2)				Prepared: 11/27/24 Analyzed: 12/20/24						
Arsenic	0.483	0.010	mg/L	0.5000		96.5	80-120	2.21	20	
Copper	1.02	0.010	mg/L	1.000		102	80-120	2.22	20	
Duplicate (B393730-DUP1)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/03/24						
Aluminum	ND	0.050	mg/L		ND			NC	20	
Antimony	ND	0.050	mg/L		ND			NC	20	
Barium	0.182	0.050	mg/L		0.183			0.509	20	
Beryllium	ND	0.0040	mg/L		ND			NC	20	
Cadmium	ND	0.0040	mg/L		ND			NC	20	
Calcium	109	0.50	mg/L		110			0.723	20	
Chromium	ND	0.010	mg/L		ND			NC	20	
Cobalt	ND	0.010	mg/L		ND			NC	20	
Iron	ND	0.050	mg/L		ND			NC	20	
Lead	ND	0.010	mg/L		ND			NC	20	
Magnesium	35.3	0.050	mg/L		35.5			0.548	20	
Manganese	0.178	0.010	mg/L		0.177			0.530	20	
Nickel	0.00658	0.010	mg/L		0.00656			0.369	20	J
Potassium	9.88	2.0	mg/L		10.0			1.37	20	
Selenium	ND	0.050	mg/L		ND			NC	20	
Silver	ND	0.010	mg/L		ND			NC	20	
Sodium	109	2.0	mg/L		110			0.517	20	
Thallium	ND	0.050	mg/L		ND			NC	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393730 - SW-846 3005A											
Duplicate (B393730-DUP1)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/03/24							
Vanadium	ND	0.010	mg/L		ND				NC	20	
Zinc	ND	0.010	mg/L		ND				NC	20	
Duplicate (B393730-DUP2)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/20/24							
Arsenic	ND	0.010	mg/L		ND				NC	20	
Copper	0.0103	0.010	mg/L		ND				NC	20	
Matrix Spike (B393730-MS1)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/03/24							
Aluminum	0.567	0.050	mg/L	0.5000	ND	113		75-125			
Antimony	0.552	0.050	mg/L	0.5000	ND	110		75-125			
Barium	0.717	0.050	mg/L	0.5000	0.183	107		75-125			
Beryllium	0.559	0.0040	mg/L	0.5000	ND	112		75-125			
Cadmium	0.549	0.0040	mg/L	0.5000	ND	110		75-125			
Calcium	117	0.50	mg/L	4.000	110	**172**	*	75-125			MS-19
Chromium	0.534	0.010	mg/L	0.5000	ND	107		75-125			
Cobalt	0.524	0.010	mg/L	0.5000	ND	105		75-125			
Iron	4.44	0.050	mg/L	4.000	ND	111		75-125			
Lead	0.550	0.010	mg/L	0.5000	ND	110		75-125			
Magnesium	40.6	0.050	mg/L	4.000	35.5	**129**	*	75-125			MS-19
Manganese	0.712	0.010	mg/L	0.5000	0.177	107		75-125			
Nickel	0.489	0.010	mg/L	0.5000	0.00656	96.5		75-125			
Potassium	14.5	2.0	mg/L	4.000	10.0	112		75-125			
Selenium	0.532	0.050	mg/L	0.5000	ND	106		75-125			
Silver	0.611	0.010	mg/L	0.5000	ND	122		75-125			
Sodium	116	2.0	mg/L	4.000	110	**172**	*	75-125			MS-19
Thallium	0.550	0.050	mg/L	0.5000	ND	110		75-125			
Vanadium	0.577	0.010	mg/L	0.5000	ND	115		75-125			
Zinc	1.08	0.010	mg/L	1.000	ND	108		75-125			
Matrix Spike (B393730-MS2)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/20/24							
Arsenic	0.485	0.010	mg/L	0.5000	ND	96.9		75-125			
Copper	1.06	0.010	mg/L	1.000	ND	106		75-125			
Post Spike (B393730-PS1)	**Source: 24K1715-01**			Prepared: 11/27/24 Analyzed: 12/03/24							
Aluminum	2.13		mg/L	2.000	0.0217	106		75-125			
Antimony	2.13		mg/L	2.000	0.000638	106		75-125			
Barium	2.20		mg/L	2.000	0.180	101		75-125			
Beryllium	2.15		mg/L	2.000	0.000430	107		75-125			
Cadmium	2.10		mg/L	2.000	0.000819	105		75-125			
Calcium	124		mg/L	16.00	108	102		75-125			
Chromium	2.05		mg/L	2.000	0.000819	102		75-125			
Cobalt	2.00		mg/L	2.000	0.00145	100		75-125			
Iron	17.0		mg/L	16.00	0.0183	106		75-125			
Lead	2.12		mg/L	2.000	0.000413	106		75-125			
Magnesium	51.1		mg/L	16.00	34.8	102		75-125			
Manganese	2.22		mg/L	2.000	0.173	102		75-125			
Nickel	1.86		mg/L	2.000	0.00643	92.8		75-125			
Potassium	26.5		mg/L	16.00	9.81	104		75-125			
Selenium	2.07		mg/L	2.000	-0.00503	103		75-125			
Silver	1.91		mg/L	2.000	-0.000270	95.6		75-125			
Sodium	124		mg/L	16.00	107	106		75-125			
Thallium	2.17		mg/L	2.000	0.00220	109		75-125			
Vanadium	2.19		mg/L	2.000	0.00212	110		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393730 - SW-846 3005A										
Post Spike (B393730-PS1)		**Source: 24K1715-01**		Prepared: 11/27/24 Analyzed: 12/03/24						
Zinc	4.13		mg/L	4.000	0.00458	103	75-125			
Dilution Check (B393730-SRL1)		**Source: 24K1715-01**		Prepared: 11/27/24 Analyzed: 12/03/24						
Aluminum	ND	1.2	mg/L		ND				20	
Antimony	ND	1.2	mg/L		ND				20	
Beryllium	ND	0.10	mg/L		ND				20	
Cadmium	ND	0.10	mg/L		ND				20	
Chromium	ND	0.25	mg/L		ND				20	
Cobalt	ND	0.25	mg/L		ND				20	
Iron	ND	1.2	mg/L		ND				20	
Lead	ND	0.25	mg/L		ND				20	
Nickel	ND	0.25	mg/L		ND				20	
Selenium	ND	1.2	mg/L		ND				20	
Silver	ND	0.25	mg/L		ND				20	
Thallium	ND	1.2	mg/L		ND				20	
Vanadium	ND	0.25	mg/L		ND				20	
Zinc	ND	0.25	mg/L		ND				20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393436 - SW-846 9010C										
Blank (B393436-BLK1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	ND	0.010	mg/L							
LCS (B393436-BS1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	0.27	0.010	mg/L	0.2999		89.1	80-120			
LCS Dup (B393436-BSD1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	0.27	0.010	mg/L	0.2999		88.5	80-120	0.696	20	

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BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM1	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.71
Endrin [1]	5.19

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.51
Endrin [2]	8.36

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM2	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.52
Endrin [1]	2.00

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	2.34

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM3	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.24
Endrin [1]	6.49

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BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM3	Analyzed:	11/27/2024

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	5.45
Endrin [2]	6.88

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM4	Analyzed:	11/28/2024

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	4.06
Endrin [1]	4.87

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	5.13
Endrin [2]	5.37

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B393096-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.75	8.9
Aroclor-1260	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	0.79	11.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B393096-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.90	
	2	0.000	0.000	0.000	0.82	9.3
Aroclor-1260	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.86	11.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B393097-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.351	7.320	7.380	2.1	
	2	7.414	7.383	7.443	1.9	10.0
4,4'-DDE	1	6.904	6.873	6.933	2.0	
	2	6.974	6.944	7.004	1.8	10.5
4,4'-DDT	1	7.567	7.536	7.596	1.9	
	2	7.658	7.628	7.688	1.7	11.1
Aldrin	1	6.233	6.202	6.262	1.7	
	2	6.200	6.169	6.229	1.5	12.5
alpha-BHC	1	5.507	5.476	5.536	1.8	
	2	5.473	5.442	5.502	1.6	11.8
alpha-Chlordane	1	6.846	6.816	6.876	1.9	
	2	6.844	6.813	6.873	1.7	11.1
beta-BHC	1	5.765	5.734	5.794	1.9	
	2	5.751	5.720	5.780	1.8	5.4
delta-BHC	1	5.883	5.852	5.912	1.7	
	2	5.942	5.911	5.971	1.5	12.5
Dieldrin	1	7.124	7.094	7.154	1.9	
	2	7.087	7.056	7.116	1.7	11.1
Endosulfan I	1	6.946	6.916	6.976	1.9	
	2	6.883	6.852	6.912	1.7	11.1
Endosulfan II	1	7.468	7.437	7.497	2.0	
	2	7.480	7.449	7.509	1.8	10.5
Endosulfan Sulfate	1	8.117	8.086	8.146	1.9	
	2	7.961	7.931	7.991	1.7	11.1
Endrin	1	7.299	7.268	7.328	2.0	
	2	7.315	7.284	7.344	1.7	16.2
Endrin Aldehyde	1	7.793	7.763	7.823	1.7	
	2	7.744	7.714	7.774	1.6	6.1
Endrin Ketone	1	8.307	8.276	8.336	1.9	
	2	8.331	8.301	8.361	1.7	11.1
gamma-BHC (Lindane)	1	5.710	5.679	5.739	1.8	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B393097-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.696	5.665	5.725	1.6	11.8
gamma-Chlordane	1	6.749	6.719	6.779	1.8	
	2	6.737	6.706	6.766	1.7	11.1
Heptachlor	1	6.026	5.996	6.056	1.7	
	2	5.983	5.951	6.011	1.6	6.1
Heptachlor Epoxide	1	6.660	6.629	6.689	1.9	
	2	6.600	6.569	6.629	1.7	11.1
Methoxychlor	1	7.948	7.917	7.977	1.7	
	2	8.186	8.156	8.216	1.5	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B393097-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.351	7.320	7.380	2.2	
	2	7.413	7.383	7.443	2.0	9.5
4,4'-DDE	1	6.903	6.873	6.933	2.2	
	2	6.974	6.944	7.004	2.0	9.5
4,4'-DDT	1	7.567	7.536	7.596	2.0	
	2	7.658	7.628	7.688	1.8	10.5
Aldrin	1	6.232	6.202	6.262	2.0	
	2	6.200	6.169	6.229	1.8	10.5
alpha-BHC	1	5.507	5.476	5.536	2.1	
	2	5.473	5.442	5.502	2.0	4.9
alpha-Chlordane	1	6.846	6.816	6.876	2.1	
	2	6.843	6.813	6.873	1.9	14.6
beta-BHC	1	5.765	5.734	5.794	2.1	
	2	5.751	5.720	5.780	2.0	4.9
delta-BHC	1	5.882	5.852	5.912	1.9	
	2	5.942	5.911	5.971	1.7	11.1
Dieldrin	1	7.124	7.094	7.154	2.1	
	2	7.086	7.056	7.116	1.9	10.0
Endosulfan I	1	6.945	6.916	6.976	2.1	
	2	6.883	6.852	6.912	1.9	10.0
Endosulfan II	1	7.467	7.437	7.497	2.1	
	2	7.479	7.449	7.509	1.9	10.0
Endosulfan Sulfate	1	8.116	8.086	8.146	2.0	
	2	7.960	7.931	7.991	1.8	10.5
Endrin	1	7.298	7.268	7.328	2.1	
	2	7.315	7.284	7.344	1.9	14.6
Endrin Aldehyde	1	7.792	7.763	7.823	1.9	
	2	7.743	7.714	7.774	1.7	11.1
Endrin Ketone	1	8.307	8.276	8.336	2.0	
	2	8.330	8.301	8.361	1.8	10.5
gamma-BHC (Lindane)	1	5.710	5.679	5.739	2.1	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B393097-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.696	5.665	5.725	1.9	10.0
gamma-Chlordane	1	6.749	6.719	6.779	2.1	
	2	6.737	6.706	6.766	2.0	4.9
Heptachlor	1	6.026	5.996	6.056	2.0	
	2	5.982	5.951	6.011	1.8	10.5
Heptachlor Epoxide	1	6.659	6.629	6.689	2.1	
	2	6.600	6.569	6.629	1.9	10.0
Methoxychlor	1	7.947	7.917	7.977	1.9	
	2	8.185	8.156	8.216	1.7	11.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270E in Water	
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Pace Analytical

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East Longmeadow, MA 01028

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

RDM 24K1715 FLT STM

Company Name:	NYS DEC
Consultant:	F+E
Consultant Address:	One Penn Plaza, New York City, NY
Consultant Phone:	732-979-7572
Callout Project Name:	
Project Location:	Covert and Lugnuts, Brooklyn, NY
Callout Number:	152447
Site/Spill Number:	224414
Project Manager:	Greg Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	Greg Mayer
Sampled By:	Greg Mayer

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat B.
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM / 8082 PCBs	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID	Mercury 7471B	Cyanide 9010B						
								3	2	4	4	1	3	1	1						# of Containers
																					[2] Preservation Code
																					[3] Container Code
1	CLMW-02I	11/18/24	11:45		X	GW		X	X	X	X	X	X	X	X						
2	CLMW-02S	11/19/24	10:30		X	GW		X	X	X	X	X	X	X	X						
3	CLMW-03I	11/19/24	13:00		X	GW		X	X	X	X	X	X	X	X						
4	DUP-CLMW-03-I-Q	11/19/24	13:00		X	GW		X	X	X	X	X	X	X	X						
5	Trip Blank	11/19/24	-		-	AQ		X													

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 11/19/24 1330	
Received by: (signature) WIFI Pace	Date/Time: 11/19/24 1330	
Relinquished by: (signature) WIFI Pace	Date/Time: 11/19/24 1920	
Received by: (signature) PACE	Date/Time: 11/19/24 193	
Relinquished by: (signature) PACE	Date/Time: 11/19/24	
Received by: (signature)	Date/Time: 11/20/24 0900	

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[ ] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [X] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client NYSDEC EHE

Project NIA

MCP/RCP Required NA

Deliverable Package Requirement NIA

Location Covert and Luquer, Boooklyn, NY

PWSID# (When Applicable) NIA

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MEM 11/20/24 0130

Back-Sheet By / Date / Time STM 11/21/24 1714

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp ☒ < 6° C Actual Temperature 1.2, 1.3

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☒	☒ STM
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

All Samples Proper pH: N/A True ☒ ☐

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																					
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	Ambers	1 Liter	2	2	2	2																
HCL																						
Sulfuric																						
Sulfuric		250mL																				
Phosphoric																						
HCl																						
Unpreserved		100mL	3	3	3	3																
Unpreserved	Plastics	1 Liter																				
Sulfuric																						
Unpreserved		500mL	2	2	2	1																
Sulfuric																						
Unpreserved		250mL																				
Trizma																						
Sulfuric																						
Nitric			-	-	-	-																
NaOH			-	-	-	-																
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved	VOA Vials																					
HCl			3	3	3	2	2															
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact	Other / Fill in																					
125mL Plastic			-	-	-	-																

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 27, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Court and Luquer, Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K1835

Enclosed are results of analyses for samples as received by the laboratory on November 21, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/27/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1835

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Court and Luquer, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-06	24K1835-01	Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Trip Blank	24K1835-02	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorooctanesulfonic acid (PFOS)
24K1835-01[CLMW-06]

SW-846 8081B

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Methoxychlor [2C]
B393097-BLK1, B393097-BS1, B393097-BSD1

SW-846 8260D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B393275-BSD1, B393405-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

tert-Amyl Alcohol (TAA)
24K1835-01[CLMW-06], 24K1835-02[Trip Blank], B393275-BLK1, B393275-BS1, B393275-BSD1, B393405-BLK1, B393405-BS1, B393405-BSD1, S114780-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B393275-BS1, B393275-BSD1, B393405-BS1, B393405-BSD1, S114778-CCV1, S114780-CCV1

SW-846 8270E

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1

Hexachloroethane
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B393095-BSD1

Hexachlorobutadiene
B393095-BSD1

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2,4,5-Tetrachlorobenzene
B393095-BS1, B393095-BSD1

1-Methylnaphthalene
B393095-BS1, B393095-BSD1

2,3,4,6-Tetrachlorophenol
B393095-BS1, B393095-BSD1

2,4,5-Trichlorophenol
B393095-BS1, B393095-BSD1

2,4-Dichlorophenol
B393095-BS1, B393095-BSD1

2,4-Dinitrophenol
B393095-BS1

2-Chlorophenol
B393095-BS1, B393095-BSD1

2-Methylnaphthalene
B393095-BS1, B393095-BSD1

2-Nitrophenol
B393095-BS1, B393095-BSD1

4-Nitrophenol
B393095-BS1, B393095-BSD1

Hexachlorobutadiene
B393095-BS1

Naphthalene
B393095-BS1, B393095-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Dibenz(a,h)anthracene
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Di-n-octylphthalate
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

Indeno(1,2,3-cd)pyrene
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine
24K1835-01[CLMW-06], B393095-BLK1, B393095-BS1, B393095-BSD1, S114683-CCV1, S114725-ICV1

Pace Analytical Services, LLC - East Longmeadow, Ma

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The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Chloroform	6.1	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
cis-1,2-Dichloroethylene	0.48	1.0	0.20	µg/L	1	J	SW-846 8260D	11/27/24	12/3/24 0:11	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Tetrachloroethylene	76	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Trichloroethylene	1.6	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/27/24	12/3/24 0:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		12/3/24 0:11
Toluene-d8	101	70-130		12/3/24 0:11
4-Bromofluorobenzene	104	70-130		12/3/24 0:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/27/24	12/3/24 0:11	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.4	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzaldehyde	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Biphenyl	ND	19	0.88	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Caprolactam	ND	9.6	0.68	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Acenaphthene	ND	4.8	0.75	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Acenaphthylene	ND	4.8	0.61	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Acetophenone	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Aniline	ND	19	8.6	µg/L	1	V-05	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzo(a)pyrene	ND	4.8	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Bis(2-chloroethoxy)methane	ND	9.6	0.55	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Bis(2-chloroethyl)ether	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.6	0.72	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.6	0.31	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Bromophenylphenylether	ND	9.6	0.68	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Butylbenzylphthalate	ND	9.6	0.38	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Carbazole	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Chloroaniline	ND	9.6	5.0	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Chloro-3-methylphenol	ND	9.6	0.61	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Chloronaphthalene	ND	9.6	0.78	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Chlorophenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Chlorophenylphenylether	ND	9.6	0.83	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Dibenz(a,h)anthracene	ND	4.8	0.45	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Dibenzofuran	ND	4.8	0.82	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Di-n-butylphthalate	ND	9.6	0.48	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
3,3-Dichlorobenzidine	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4-Dichlorophenol	ND	9.6	0.45	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Diethylphthalate	ND	9.6	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4-Dimethylphenol	ND	9.6	0.39	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Dimethylphthalate	ND	9.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4-Dinitrophenol	ND	9.6	1.3	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4-Dinitrotoluene	ND	9.6	0.33	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,6-Dinitrotoluene	ND	9.6	0.53	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Di-n-octylphthalate	ND	9.6	0.31	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Fluorene	ND	4.8	0.72	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Hexachlorobenzene	ND	9.6	0.69	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Hexachlorocyclopentadiene	ND	9.6	2.7	µg/L	1	V-06	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Hexachloroethane	ND	9.6	1.2	µg/L	1	L-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.45	µg/L	1	V-04	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Isophorone	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
1-Methylnaphthalene	ND	4.8	0.94	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Methylnaphthalene	ND	4.8	0.89	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Methylphenol	ND	9.6	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
3/4-Methylphenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Naphthalene	ND	4.8	0.86	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Nitroaniline	ND	9.6	0.47	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
3-Nitroaniline	ND	9.6	0.49	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Nitroaniline	ND	9.6	0.42	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Nitrobenzene	ND	9.6	0.65	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2-Nitrophenol	ND	9.6	0.52	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
4-Nitrophenol	ND	9.6	1.2	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
N-Nitrosodi-n-propylamine	ND	9.6	0.63	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Pentachlorophenol	ND	9.6	0.46	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Phenanthrene	ND	4.8	0.68	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Phenol	ND	9.6	0.57	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	SW-846 8270E	11/26/24	11/27/24 16:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.6	1.1	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4,5-Trichlorophenol	ND	9.6	0.43	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL
2,4,6-Trichlorophenol	ND	9.6	0.36	µg/L	1		SW-846 8270E	11/26/24	11/27/24 16:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.6	15-110		11/27/24 16:17
Phenol-d6	30.3	15-110		11/27/24 16:17
Nitrobenzene-d5	76.6	30-130		11/27/24 16:17
2-Fluorobiphenyl	72.3	30-130		11/27/24 16:17
2,4,6-Tribromophenol	77.2	15-110		11/27/24 16:17
p-Terphenyl-d14	80.7	30-130		11/27/24 16:17

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/26/24	12/3/24 1:25	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	22.1	15-110					12/3/24 1:25	

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	6.4	0.80	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoropentanoic acid (PFPeA)	16	3.2	0.44	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorohexanoic acid (PFHxA)	16	1.6	0.28	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoroheptanoic acid (PFHpA)	19	1.6	0.28	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorooctanoic acid (PFOA)	190	1.6	0.42	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorononanoic acid (PFNA)	2.3	1.6	0.65	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.51	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.48	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorobutanesulfonic acid (PFBS)	6.0	1.6	0.34	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorohexanesulfonic acid (PFHxS)	4.2	1.6	0.62	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.85	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorooctanesulfonic acid (PFOS)	7.1	1.6	0.40	ng/L	1	PF-23	Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.72	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.4	1.3	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.4	3.0	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.4	3.3	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.4	1.5	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.4	0.85	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
9Cl-PF3ONS (F53B Minor)	ND	6.4	0.93	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
11Cl-PF3OUdS (F53B Major)	ND	6.4	1.7	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.0	2.2	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.0	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	9.0	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.57	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.46	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.43	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.1	ng/L	1		Draft Method 1633	12/12/24	12/16/24 21:41	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	91.1	5-130		12/16/24 21:41
13C5-PFPeA	90.2	40-130		12/16/24 21:41
13C5-PFHxA	89.1	40-130		12/16/24 21:41
13C4-PFHpA	93.9	40-130		12/16/24 21:41
13C8-PFOA	87.6	40-130		12/16/24 21:41
13C9-PFNA	89.1	40-130		12/16/24 21:41
13C6-PFDA	82.9	40-130		12/16/24 21:41
13C7-PFUnA	75.7	30-130		12/16/24 21:41
13C2-PFDoA	65.4	10-130		12/16/24 21:41
13C2-PFTeDA	59.2	10-130		12/16/24 21:41
13C3-PFBS	91.0	40-135		12/16/24 21:41
13C3-PFHxS	84.8	40-130		12/16/24 21:41
13C8-PFOS	82.7	40-130		12/16/24 21:41
13C2-4:2FTS	136	40-200		12/16/24 21:41
13C2-6:2FTS	101	40-200		12/16/24 21:41
13C2-8:2FTS	74.7	40-300		12/16/24 21:41
13C8-PFOSA	81.5	40-130		12/16/24 21:41
D3-NMeFOSA	61.6	10-130		12/16/24 21:41
D5-NEtFOSA	60.1	10-130		12/16/24 21:41
D3-NMeFOSAA	68.9	40-170		12/16/24 21:41
D5-NEtFOSAA	64.5	25-135		12/16/24 21:41
D7-NMeFOSE	60.9	10-130		12/16/24 21:41
D9-NEtFOSE	57.1	10-130		12/16/24 21:41
13C3-HFPO-DA	101	40-130		12/16/24 21:41

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/26/24	11/27/24 16:17	BGL

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.044	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
gamma-Chlordane [1]	ND	0.044	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Aldrin [1]	ND	0.044	0.0032	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
alpha-BHC [1]	ND	0.044	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
beta-BHC [1]	ND	0.044	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
delta-BHC [2]	ND	0.044	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
gamma-BHC (Lindane) [1]	ND	0.026	0.0037	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
4,4'-DDD [1]	ND	0.035	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
4,4'-DDE [1]	ND	0.035	0.0026	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
4,4'-DDT [1]	ND	0.035	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Dieldrin [1]	ND	0.0018	0.0012	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endosulfan I [1]	ND	0.044	0.015	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endosulfan II [1]	ND	0.070	0.013	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endosulfan sulfate [1]	ND	0.070	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endrin [1]	ND	0.070	0.016	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endrin aldehyde [1]	ND	0.070	0.019	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Endrin ketone [1]	ND	0.070	0.014	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Heptachlor [1]	ND	0.044	0.0039	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Heptachlor epoxide [1]	ND	0.044	0.0032	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Methoxychlor [1]	ND	0.44	0.060	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG
Toxaphene [1]	ND	0.88	0.35	µg/L	1		SW-846 8081B	11/26/24	11/28/24 8:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	95.9	30-150		11/28/24 8:59	
Decachlorobiphenyl [2]	92.8	30-150		11/28/24 8:59	
Tetrachloro-m-xylene [1]	81.2	30-150		11/28/24 8:59	
Tetrachloro-m-xylene [2]	76.3	30-150		11/28/24 8:59	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1221 [1]	ND	0.18	0.091	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1232 [1]	ND	0.18	0.082	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1242 [1]	ND	0.18	0.095	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1248 [1]	ND	0.18	0.082	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1254 [1]	ND	0.18	0.092	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1262 [1]	ND	0.18	0.073	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM
Aroclor-1268 [1]	ND	0.18	0.067	µg/L	1		SW-846 8082A	11/26/24	11/27/24 14:21	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.5	30-150		11/27/24 14:21
Decachlorobiphenyl [2]	89.6	30-150		11/27/24 14:21
Tetrachloro-m-xylene [1]	70.7	30-150		11/27/24 14:21
Tetrachloro-m-xylene [2]	75.4	30-150		11/27/24 14:21

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.029	0.050	0.025	mg/L	1	J	SW-846 6010D	12/17/24	12/21/24 13:31	NC
Antimony	0.015	0.050	0.011	mg/L	1	J	SW-846 6010D	12/17/24	12/21/24 13:31	NC
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	12/17/24	12/23/24 18:05	HNN
Barium	0.19	0.050	0.0098	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Calcium	75	0.50	0.21	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Copper	0.010	0.010	0.0095	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Iron	0.070	0.050	0.036	mg/L	1		SW-846 6010D	12/17/24	12/23/24 18:05	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Magnesium	30	0.050	0.016	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Manganese	0.31	0.010	0.0018	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	12/16/24	12/17/24 12:46	AAJ
Nickel	0.0060	0.010	0.0046	mg/L	1	J	SW-846 6010D	12/17/24	12/21/24 13:31	NC
Potassium	4.4	2.0	0.47	mg/L	1		SW-846 6010D	12/17/24	12/23/24 18:05	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Silver	0.024	0.010	0.0044	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Sodium	220	2.0	0.38	mg/L	1		SW-846 6010D	12/17/24	12/26/24 12:29	MJH
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	12/17/24	12/24/24 19:00	NC
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	12/17/24	12/21/24 13:31	NC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: CLMW-06 Sampled: 11/20/2024 11:15

Sample ID: 24K1835-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	12/2/24	12/3/24 9:38	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: Trip Blank Sampled: 11/20/2024 00:00

Sample ID: 24K1835-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: Trip Blank Sampled: 11/20/2024 00:00

Sample ID: 24K1835-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	12/2/24	12/2/24 22:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		12/2/24 22:03
Toluene-d8	102	70-130		12/2/24 22:03
4-Bromofluorobenzene	105	70-130		12/2/24 22:03

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Project Location: Court and Luquer, Brooklyn, NY Sample Description: Work Order: 24K1835

Date Received: 11/21/2024

Field Sample #: Trip Blank Sampled: 11/20/2024 00:00

Sample ID: 24K1835-02

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	12/2/24	12/2/24 22:03	EEH

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B394095	501	4.00	12/12/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B394850	50.0	50.0	12/17/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B394668	10.0	10.0	12/16/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393097	114	2.00	11/26/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393096	114	2.00	11/26/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393275	5	5.00	11/27/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-02 [Trip Blank]	B393405	5	5.00	12/02/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393095	105	1.00	11/26/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393150	1020	1.00	11/26/24

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Sample Extraction Data

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1835-01 [CLMW-06]	B393436	50.0	50.0	12/02/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							R-05
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B											
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.00		102	70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.00		102	70-130				
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.00		105	70-130				
LCS (B393275-BS1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Acetone	88.9	50	µg/L	100.0		88.9	70-160				†
tert-Amyl Alcohol (TAA)	75.2	5.0	µg/L	100.0		75.2	70-130			R-05	
tert-Amyl Ethyl Ether (TAEE)	8.25	0.50	µg/L	10.00		82.5	70-130				
tert-Amyl Methyl Ether (TAME)	8.50	0.50	µg/L	10.00		85.0	70-130				
Benzene	9.67	1.0	µg/L	10.00		96.7	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130				
Bromodichloromethane	11.4	0.50	µg/L	10.00		114	70-130				
Bromoform	11.2	1.0	µg/L	10.00		112	70-130				
Bromomethane	9.08	2.0	µg/L	10.00		90.8	40-160				†
2-Butanone (MEK)	70.2	20	µg/L	100.0		70.2	40-160				†
tert-Butyl Alcohol (TBA)	87.8	20	µg/L	100.0		87.8	40-160				†
n-Butylbenzene	9.29	1.0	µg/L	10.00		92.9	70-130				
sec-Butylbenzene	9.50	1.0	µg/L	10.00		95.0	70-130				
tert-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.10	0.50	µg/L	10.00		91.0	70-130				
Carbon Disulfide	92.5	5.0	µg/L	100.0		92.5	70-130				
Carbon Tetrachloride	11.5	5.0	µg/L	10.00		115	70-130				
Chlorobenzene	10.5	1.0	µg/L	10.00		105	70-130				
Chlorodibromomethane	11.9	0.50	µg/L	10.00		119	70-130				
Chloroethane	8.86	2.0	µg/L	10.00		88.6	70-130				
Chloroform	10.2	2.0	µg/L	10.00		102	70-130				
Chloromethane	8.94	2.0	µg/L	10.00		89.4	40-160				†
Cyclohexane	8.73	5.0	µg/L	10.00		87.3	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.98	5.0	µg/L	10.00		89.8	70-130				
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.00		109	70-130				
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
1,4-Dichlorobenzene	9.89	1.0	µg/L	10.00		98.9	70-130				
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.00		117	40-160				†
1,1-Dichloroethane	9.95	1.0	µg/L	10.00		99.5	70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.00		108	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B											
LCS (B393275-BS1)				Prepared: 11/27/24 Analyzed: 12/02/24							
1,1-Dichloroethylene	10.8	1.0	µg/L	10.00		108	70-130				
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
trans-1,2-Dichloroethylene	9.88	1.0	µg/L	10.00		98.8	70-130				
1,2-Dichloropropane	9.73	1.0	µg/L	10.00		97.3	70-130				
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103	70-130				
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.00		98.6	70-130				
Diisopropyl Ether (DIPE)	9.93	0.50	µg/L	10.00		99.3	70-130				
Ethanol	112	50	µg/L	100.0		112	40-160				
Ethylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
2-Hexanone (MBK)	93.1	10	µg/L	100.0		93.1	70-160				†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.00		107	70-130				
p-Isopropyltoluene (p-Cymene)	9.72	1.0	µg/L	10.00		97.2	70-130				
Methyl Acetate	9.64	1.0	µg/L	10.00		96.4	70-130				
Methyl tert-Butyl Ether (MTBE)	8.98	1.0	µg/L	10.00		89.8	70-130				
Methyl Cyclohexane	9.24	1.0	µg/L	10.00		92.4	70-130				
Methylene Chloride	10.6	5.0	µg/L	10.00		106	70-130				
4-Methyl-2-pentanone (MIBK)	97.4	10	µg/L	100.0		97.4	70-160				†
Naphthalene	10.1	2.0	µg/L	10.00		101	40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
Styrene	10.5	1.0	µg/L	10.00		105	70-130				
1,1,2,2-Tetrachloroethane	9.68	0.50	µg/L	10.00		96.8	70-130				
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
Toluene	10.4	1.0	µg/L	10.00		104	70-130				
1,2,3-Trichlorobenzene	12.1	5.0	µg/L	10.00		121	70-130			V-20	
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130				
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130				
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130				
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.00		117	70-130				
1,2,3-Trichloropropane	9.46	2.0	µg/L	10.00		94.6	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130				
1,2,4-Trimethylbenzene	9.77	1.0	µg/L	10.00		97.7	70-130				
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
Vinyl Chloride	10.4	2.0	µg/L	10.00		104	40-160				†
m+p Xylene	21.4	2.0	µg/L	20.00		107	70-130				
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130				
Xylenes (total)	32.3	1.0	µg/L	30.00		108	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.00		103	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*26.6*		µg/L	25.00		107	70-130				
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24							
Acetone	108	50	µg/L	100.0		108	70-160	19.3	25		†
tert-Amyl Alcohol (TAA)	101	5.0	µg/L	100.0		101	70-130	**29.2** *	25	R-05	
tert-Amyl Ethyl Ether (TAEE)	9.78	0.50	µg/L	10.00		97.8	70-130	17.0	25		
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.00		100	70-130	16.6	25		
Benzene	10.1	1.0	µg/L	10.00		101	70-130	4.05	25		
Bromochloromethane	10.7	1.0	µg/L	10.00		107	70-130	1.49	25		
Bromodichloromethane	12.0	0.50	µg/L	10.00		120	70-130	5.29	25		
Bromoform	12.2	1.0	µg/L	10.00		122	70-130	8.52	25		
Bromomethane	10.4	2.0	µg/L	10.00		104	40-160	13.6	25		†
2-Butanone (MEK)	87.4	20	µg/L	100.0		87.4	40-160	21.8	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B393275 - SW-846 5030B												
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24								
tert-Butyl Alcohol (TBA)	111	20	µg/L	100.0		111		40-160	23.4	25		†
n-Butylbenzene	9.79	1.0	µg/L	10.00		97.9		70-130	5.24	25		
sec-Butylbenzene	9.98	1.0	µg/L	10.00		99.8		70-130	4.93	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104		70-130	1.65	25		
tert-Butyl Ethyl Ether (TBEE)	9.79	0.50	µg/L	10.00		97.9		70-130	7.31	25		
Carbon Disulfide	94.3	5.0	µg/L	100.0		94.3		70-130	1.86	25		
Carbon Tetrachloride	12.3	5.0	µg/L	10.00		123		70-130	6.39	25		
Chlorobenzene	11.3	1.0	µg/L	10.00		113		70-130	7.07	25		
Chlorodibromomethane	12.2	0.50	µg/L	10.00		122		70-130	2.08	25		
Chloroethane	9.43	2.0	µg/L	10.00		94.3		70-130	6.23	25		
Chloroform	10.5	2.0	µg/L	10.00		105		70-130	3.48	25		
Chloromethane	9.47	2.0	µg/L	10.00		94.7		40-160	5.76	25		†
Cyclohexane	9.32	5.0	µg/L	10.00		93.2		70-130	6.54	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102		70-130	13.1	25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112		70-130	3.17	25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114		70-130	3.93	25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111		70-130	3.68	25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109		70-130	10.1	25		
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.00		110		40-160	5.91	25		†
1,1-Dichloroethane	10.7	1.0	µg/L	10.00		107		70-130	7.26	25		
1,2-Dichloroethane	11.1	1.0	µg/L	10.00		111		70-130	2.56	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00		109		70-130	0.737	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105		70-130	0.286	25		
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105		70-130	6.08	25		
1,2-Dichloropropane	9.66	1.0	µg/L	10.00		96.6		70-130	0.722	25		
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107		70-130	3.24	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.00		106		70-130	7.23	25		
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.00		100		70-130	1.20	25		
Ethanol	112	50	µg/L	100.0		112		40-160	0.161	25		
Ethylbenzene	10.9	1.0	µg/L	10.00		109		70-130	1.48	25		
2-Hexanone (MBK)	114	10	µg/L	100.0		114		70-160	20.6	25		†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.00		111		70-130	3.58	25		
p-Isopropyltoluene (p-Cymene)	9.80	1.0	µg/L	10.00		98.0		70-130	0.820	25		
Methyl Acetate	10.7	1.0	µg/L	10.00		107		70-130	10.0	25		
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104		70-130	14.3	25		
Methyl Cyclohexane	9.42	1.0	µg/L	10.00		94.2		70-130	1.93	25		
Methylene Chloride	10.9	5.0	µg/L	10.00		109		70-130	2.97	25		
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100.0		115		70-160	16.9	25		†
Naphthalene	11.9	2.0	µg/L	10.00		119		40-130	16.7	25		†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111		70-130	6.82	25		
Styrene	11.4	1.0	µg/L	10.00		114		70-130	8.02	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00		108		70-130	11.2	25		
Tetrachloroethylene	12.1	1.0	µg/L	10.00		121		70-130	2.51	25		
Toluene	11.0	1.0	µg/L	10.00		110		70-130	5.51	25		
1,2,3-Trichlorobenzene	14.2	5.0	µg/L	10.00		**142**	*	70-130	16.0	25	L-07, V-20	
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.00		118		70-130	5.67	25		
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00		116		70-130	1.48	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109		70-130	3.54	25		
Trichloroethylene	11.3	1.0	µg/L	10.00		113		70-130	3.15	25		
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.00		119		70-130	2.29	25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109		70-130	13.9	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
LCS Dup (B393275-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00		108	70-130	3.30	25	
1,2,4-Trimethylbenzene	9.93	1.0	µg/L	10.00		99.3	70-130	1.62	25	
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.00		112	70-130	4.48	25	
Vinyl Chloride	10.9	2.0	µg/L	10.00		109	40-160	5.45	25	†
m+p Xylene	22.4	2.0	µg/L	20.00		112	70-130	4.39	25	
o-Xylene	11.4	1.0	µg/L	10.00		114	70-130	4.58	25	
Xylenes (total)	33.7	1.0	µg/L	30.00		112	0-200	4.46		
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.00		103	70-130			
Batch B393405 - SW-846 5030B										
Blank (B393405-BLK1)				Prepared & Analyzed: 12/02/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							R-05
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B393405 - SW-846 5030B											
Blank (B393405-BLK1)				Prepared & Analyzed: 12/02/24							
Ethanol	ND	50	µg/L								
Ethylbenzene	ND	1.0	µg/L								
2-Hexanone (MBK)	ND	10	µg/L								
Isopropylbenzene (Cumene)	ND	1.0	µg/L								
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L								
Methyl Acetate	ND	1.0	µg/L								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.00		102	70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.00		102	70-130				
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.00		105	70-130				
LCS (B393405-BS1)				Prepared & Analyzed: 12/02/24							
Acetone	88.9	50	µg/L	100.0		88.9	70-160				†
tert-Amyl Alcohol (TAA)	75.2	5.0	µg/L	100.0		75.2	70-130			R-05	
tert-Amyl Ethyl Ether (TAEE)	8.25	0.50	µg/L	10.00		82.5	70-130				
tert-Amyl Methyl Ether (TAME)	8.50	0.50	µg/L	10.00		85.0	70-130				
Benzene	9.67	1.0	µg/L	10.00		96.7	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130				
Bromodichloromethane	11.4	0.50	µg/L	10.00		114	70-130				
Bromoform	11.2	1.0	µg/L	10.00		112	70-130				
Bromomethane	9.08	2.0	µg/L	10.00		90.8	40-160				†
2-Butanone (MEK)	70.2	20	µg/L	100.0		70.2	40-160				†
tert-Butyl Alcohol (TBA)	87.8	20	µg/L	100.0		87.8	40-160				†
n-Butylbenzene	9.29	1.0	µg/L	10.00		92.9	70-130				
sec-Butylbenzene	9.50	1.0	µg/L	10.00		95.0	70-130				
tert-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.10	0.50	µg/L	10.00		91.0	70-130				
Carbon Disulfide	92.5	5.0	µg/L	100.0		92.5	70-130				
Carbon Tetrachloride	11.5	5.0	µg/L	10.00		115	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393405 - SW-846 5030B										
LCS (B393405-BS1)				Prepared & Analyzed: 12/02/24						
Chlorobenzene	10.5	1.0	µg/L	10.00		105	70-130			
Chlorodibromomethane	11.9	0.50	µg/L	10.00		119	70-130			
Chloroethane	8.86	2.0	µg/L	10.00		88.6	70-130			
Chloroform	10.2	2.0	µg/L	10.00		102	70-130			
Chloromethane	8.94	2.0	µg/L	10.00		89.4	40-160			†
Cyclohexane	8.73	5.0	µg/L	10.00		87.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.98	5.0	µg/L	10.00		89.8	70-130			
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.00		109	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130			
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130			
1,4-Dichlorobenzene	9.89	1.0	µg/L	10.00		98.9	70-130			
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.00		117	40-160			†
1,1-Dichloroethane	9.95	1.0	µg/L	10.00		99.5	70-130			
1,2-Dichloroethane	10.8	1.0	µg/L	10.00		108	70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.00		108	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130			
trans-1,2-Dichloroethylene	9.88	1.0	µg/L	10.00		98.8	70-130			
1,2-Dichloropropane	9.73	1.0	µg/L	10.00		97.3	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103	70-130			
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.00		98.6	70-130			
Diisopropyl Ether (DIPE)	9.93	0.50	µg/L	10.00		99.3	70-130			
Ethanol	112	50	µg/L	100.0		112	40-160			
Ethylbenzene	10.7	1.0	µg/L	10.00		107	70-130			
2-Hexanone (MBK)	93.1	10	µg/L	100.0		93.1	70-160			†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.00		107	70-130			
p-Isopropyltoluene (p-Cymene)	9.72	1.0	µg/L	10.00		97.2	70-130			
Methyl Acetate	9.64	1.0	µg/L	10.00		96.4	70-130			
Methyl tert-Butyl Ether (MTBE)	8.98	1.0	µg/L	10.00		89.8	70-130			
Methyl Cyclohexane	9.24	1.0	µg/L	10.00		92.4	70-130			
Methylene Chloride	10.6	5.0	µg/L	10.00		106	70-130			
4-Methyl-2-pentanone (MIBK)	97.4	10	µg/L	100.0		97.4	70-160			†
Naphthalene	10.1	2.0	µg/L	10.00		101	40-130			†
n-Propylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
Styrene	10.5	1.0	µg/L	10.00		105	70-130			
1,1,2,2-Tetrachloroethane	9.68	0.50	µg/L	10.00		96.8	70-130			
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130			
Toluene	10.4	1.0	µg/L	10.00		104	70-130			
1,2,3-Trichlorobenzene	12.1	5.0	µg/L	10.00		121	70-130			V-20
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130			
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130			
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130			
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.00		117	70-130			
1,2,3-Trichloropropane	9.46	2.0	µg/L	10.00		94.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130			
1,2,4-Trimethylbenzene	9.77	1.0	µg/L	10.00		97.7	70-130			
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130			
Vinyl Chloride	10.4	2.0	µg/L	10.00		104	40-160			†
m+p Xylene	21.4	2.0	µg/L	20.00		107	70-130			
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130			
Xylenes (total)	32.3	1.0	µg/L	30.00		108	0-200			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B393405 - SW-846 5030B												
LCS (B393405-BS1)				Prepared & Analyzed: 12/02/24								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.00		103	70-130					
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130					
Surrogate: 4-Bromofluorobenzene	*26.6*		µg/L	25.00		107	70-130					
LCS Dup (B393405-BSD1)				Prepared & Analyzed: 12/02/24								
Acetone	108	50	µg/L	100.0		108	70-160	19.3		25		†
tert-Amyl Alcohol (TAA)	101	5.0	µg/L	100.0		101	70-130	**29.2**	*	25	R-05	
tert-Amyl Ethyl Ether (TAEE)	9.78	0.50	µg/L	10.00		97.8	70-130	17.0		25		
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.00		100	70-130	16.6		25		
Benzene	10.1	1.0	µg/L	10.00		101	70-130	4.05		25		
Bromochloromethane	10.7	1.0	µg/L	10.00		107	70-130	1.49		25		
Bromodichloromethane	12.0	0.50	µg/L	10.00		120	70-130	5.29		25		
Bromoform	12.2	1.0	µg/L	10.00		122	70-130	8.52		25		
Bromomethane	10.4	2.0	µg/L	10.00		104	40-160	13.6		25		†
2-Butanone (MEK)	87.4	20	µg/L	100.0		87.4	40-160	21.8		25		†
tert-Butyl Alcohol (TBA)	111	20	µg/L	100.0		111	40-160	23.4		25		†
n-Butylbenzene	9.79	1.0	µg/L	10.00		97.9	70-130	5.24		25		
sec-Butylbenzene	9.98	1.0	µg/L	10.00		99.8	70-130	4.93		25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	1.65		25		
tert-Butyl Ethyl Ether (TBEE)	9.79	0.50	µg/L	10.00		97.9	70-130	7.31		25		
Carbon Disulfide	94.3	5.0	µg/L	100.0		94.3	70-130	1.86		25		
Carbon Tetrachloride	12.3	5.0	µg/L	10.00		123	70-130	6.39		25		
Chlorobenzene	11.3	1.0	µg/L	10.00		113	70-130	7.07		25		
Chlorodibromomethane	12.2	0.50	µg/L	10.00		122	70-130	2.08		25		
Chloroethane	9.43	2.0	µg/L	10.00		94.3	70-130	6.23		25		
Chloroform	10.5	2.0	µg/L	10.00		105	70-130	3.48		25		
Chloromethane	9.47	2.0	µg/L	10.00		94.7	40-160	5.76		25		†
Cyclohexane	9.32	5.0	µg/L	10.00		93.2	70-130	6.54		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102	70-130	13.1		25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130	3.17		25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	3.93		25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	3.68		25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	10.1		25		
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.00		110	40-160	5.91		25		†
1,1-Dichloroethane	10.7	1.0	µg/L	10.00		107	70-130	7.26		25		
1,2-Dichloroethane	11.1	1.0	µg/L	10.00		111	70-130	2.56		25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	0.737		25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130	0.286		25		
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130	6.08		25		
1,2-Dichloropropane	9.66	1.0	µg/L	10.00		96.6	70-130	0.722		25		
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107	70-130	3.24		25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.00		106	70-130	7.23		25		
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.00		100	70-130	1.20		25		
Ethanol	112	50	µg/L	100.0		112	40-160	0.161		25		
Ethylbenzene	10.9	1.0	µg/L	10.00		109	70-130	1.48		25		
2-Hexanone (MBK)	114	10	µg/L	100.0		114	70-160	20.6		25		†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.00		111	70-130	3.58		25		
p-Isopropyltoluene (p-Cymene)	9.80	1.0	µg/L	10.00		98.0	70-130	0.820		25		
Methyl Acetate	10.7	1.0	µg/L	10.00		107	70-130	10.0		25		
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	70-130	14.3		25		
Methyl Cyclohexane	9.42	1.0	µg/L	10.00		94.2	70-130	1.93		25		
Methylene Chloride	10.9	5.0	µg/L	10.00		109	70-130	2.97		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B393405 - SW-846 5030B												
LCS Dup (B393405-BSD1)				Prepared & Analyzed: 12/02/24								
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100.0		115		70-160	16.9	25		†
Naphthalene	11.9	2.0	µg/L	10.00		119		40-130	16.7	25		†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111		70-130	6.82	25		
Styrene	11.4	1.0	µg/L	10.00		114		70-130	8.02	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00		108		70-130	11.2	25		
Tetrachloroethylene	12.1	1.0	µg/L	10.00		121		70-130	2.51	25		
Toluene	11.0	1.0	µg/L	10.00		110		70-130	5.51	25		
1,2,3-Trichlorobenzene	14.2	5.0	µg/L	10.00		**142**	*	70-130	16.0	25	L-07, V-20	
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.00		118		70-130	5.67	25		
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00		116		70-130	1.48	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109		70-130	3.54	25		
Trichloroethylene	11.3	1.0	µg/L	10.00		113		70-130	3.15	25		
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.00		119		70-130	2.29	25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109		70-130	13.9	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00		108		70-130	3.30	25		
1,2,4-Trimethylbenzene	9.93	1.0	µg/L	10.00		99.3		70-130	1.62	25		
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.00		112		70-130	4.48	25		
Vinyl Chloride	10.9	2.0	µg/L	10.00		109		40-160	5.45	25		†
m+p Xylene	22.4	2.0	µg/L	20.00		112		70-130	4.39	25		
o-Xylene	11.4	1.0	µg/L	10.00		114		70-130	4.58	25		
Xylenes (total)	33.7	1.0	µg/L	30.00		112		0-200	4.46			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.00		101		70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		101		70-130				
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.00		103		70-130				

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393275 - SW-846 5030B										
Blank (B393275-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24						
No TICs Found	0.0		µg/L							
Batch B393405 - SW-846 5030B										
Blank (B393405-BLK1)				Prepared & Analyzed: 12/02/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C										
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-06
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C											
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	20	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*162*		µg/L	400.0		40.5		15-110			
Surrogate: Phenol-d6	*115*		µg/L	400.0		28.8		15-110			
Surrogate: Nitrobenzene-d5	*138*		µg/L	200.0		69.2		30-130			
Surrogate: 2-Fluorobiphenyl	*116*		µg/L	200.0		57.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*246*		µg/L	400.0		61.6		15-110			
Surrogate: p-Terphenyl-d14	*157*		µg/L	200.0		78.3		30-130			
LCS (B393095-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24							
2,3,4,6-Tetrachlorophenol	87.1	20	µg/L	100.0		87.1		40-140			R-05
Atrazine	93.9	20	µg/L	100.0		93.9		40-140			
Benzaldehyde	78.3	10	µg/L	100.0		78.3		40-140			
Biphenyl	72.7	20	µg/L	100.0		72.7		40-140			
Caprolactam	28.6	10	µg/L	100.0		**28.6**	*	40-140			L-04
Acenaphthene	71.8	5.0	µg/L	100.0		71.8		40-140			
Acenaphthylene	79.0	5.0	µg/L	100.0		79.0		40-140			
Acetophenone	67.9	10	µg/L	100.0		67.9		40-140			
Aniline	65.6	20	µg/L	100.0		65.6		40-140			V-05
Anthracene	83.1	5.0	µg/L	100.0		83.1		40-140			
Benzo(a)anthracene	82.4	5.0	µg/L	100.0		82.4		40-140			
Benzo(a)pyrene	82.0	5.0	µg/L	100.0		82.0		40-140			
Benzo(b)fluoranthene	83.1	5.0	µg/L	100.0		83.1		40-140			
Benzo(g,h,i)perylene	90.1	5.0	µg/L	100.0		90.1		40-140			
Benzo(k)fluoranthene	83.6	5.0	µg/L	100.0		83.6		40-140			
Bis(2-chloroethoxy)methane	75.3	10	µg/L	100.0		75.3		40-140			
Bis(2-chloroethyl)ether	72.7	10	µg/L	100.0		72.7		40-140			
2,2'-oxybis(1-Chloropropane)	73.1	10	µg/L	100.0		73.1		40-140			
Bis(2-Ethylhexyl)phthalate	69.6	10	µg/L	100.0		69.6		40-140			
4-Bromophenylphenylether	81.7	10	µg/L	100.0		81.7		40-140			
Butylbenzylphthalate	77.6	10	µg/L	100.0		77.6		40-140			
Carbazole	84.2	10	µg/L	100.0		84.2		40-140			
4-Chloroaniline	77.0	10	µg/L	100.0		77.0		40-140			
4-Chloro-3-methylphenol	70.3	10	µg/L	100.0		70.3		30-130			
2-Chloronaphthalene	66.4	10	µg/L	100.0		66.4		40-140			
2-Chlorophenol	73.1	10	µg/L	100.0		73.1		30-130			R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B393095 - SW-846 3510C												
LCS (B393095-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24								
4-Chlorophenylphenylether	72.1	10	µg/L	100.0		72.1		40-140				
Chrysene	79.4	5.0	µg/L	100.0		79.4		40-140				
Dibenz(a,h)anthracene	84.2	5.0	µg/L	100.0		84.2		40-140			V-04	
Dibenzofuran	78.6	5.0	µg/L	100.0		78.6		40-140				
Di-n-butylphthalate	70.2	10	µg/L	100.0		70.2		40-140				
3,3-Dichlorobenzidine	85.2	10	µg/L	100.0		85.2		40-140				
2,4-Dichlorophenol	80.0	10	µg/L	100.0		80.0		30-130			R-05	
Diethylphthalate	70.4	10	µg/L	100.0		70.4		40-140				
2,4-Dimethylphenol	71.3	10	µg/L	100.0		71.3		30-130				
Dimethylphthalate	77.3	10	µg/L	100.0		77.3		40-140				
4,6-Dinitro-2-methylphenol	73.8	20	µg/L	100.0		73.8		30-130				
2,4-Dinitrophenol	53.9	10	µg/L	100.0		53.9		30-130			V-04, R-05	
2,4-Dinitrotoluene	78.8	10	µg/L	100.0		78.8		40-140				
2,6-Dinitrotoluene	80.1	10	µg/L	100.0		80.1		40-140				
Di-n-octylphthalate	65.6	10	µg/L	100.0		65.6		40-140			V-04	
Fluoranthene	82.0	5.0	µg/L	100.0		82.0		40-140				
Fluorene	76.4	5.0	µg/L	100.0		76.4		40-140				
Hexachlorobenzene	86.2	10	µg/L	100.0		86.2		40-140				
Hexachlorobutadiene	47.4	10	µg/L	100.0		47.4		40-140			R-05	
Hexachlorocyclopentadiene	59.4	10	µg/L	100.0		59.4		30-140			V-06	†
Hexachloroethane	39.0	10	µg/L	100.0		**39.0**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	88.5	5.0	µg/L	100.0		88.5		40-140			V-04	
Isophorone	77.5	10	µg/L	100.0		77.5		40-140				
1-Methylnaphthalene	61.6	5.0	µg/L	100.0		61.6		40-140			R-05	
2-Methylnaphthalene	58.3	5.0	µg/L	100.0		58.3		40-140			R-05	
2-Methylphenol	63.9	10	µg/L	100.0		63.9		30-130				
3/4-Methylphenol	60.4	10	µg/L	100.0		60.4		30-130				
Naphthalene	68.1	5.0	µg/L	100.0		68.1		40-140			R-05	
2-Nitroaniline	90.2	10	µg/L	100.0		90.2		40-140				
3-Nitroaniline	76.9	10	µg/L	100.0		76.9		40-140				
4-Nitroaniline	72.9	10	µg/L	100.0		72.9		40-140				
Nitrobenzene	84.8	10	µg/L	100.0		84.8		40-140				
2-Nitrophenol	78.0	10	µg/L	100.0		78.0		30-130			R-05	
4-Nitrophenol	41.3	10	µg/L	100.0		41.3		10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	83.3	10	µg/L	100.0		83.3		40-140				
N-Nitrosodi-n-propylamine	65.2	10	µg/L	100.0		65.2		40-140				
Pentachlorophenol	69.7	10	µg/L	100.0		69.7		30-130				
Phenanthrene	81.4	5.0	µg/L	100.0		81.4		40-140				
Phenol	38.0	10	µg/L	100.0		38.0		20-130				†
Pyrene	85.7	5.0	µg/L	100.0		85.7		40-140				
Pyridine	20.4	20	µg/L	100.0		20.4		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	73.1	10	µg/L	100.0		73.1		40-140			R-05	
2,4,5-Trichlorophenol	85.1	10	µg/L	100.0		85.1		30-130			R-05	
2,4,6-Trichlorophenol	83.2	10	µg/L	100.0		83.2		30-130				
Surrogate: 2-Fluorophenol	*243*		µg/L	400.0		60.6		15-110				
Surrogate: Phenol-d6	*162*		µg/L	400.0		40.5		15-110				
Surrogate: Nitrobenzene-d5	*187*		µg/L	200.0		93.5		30-130				
Surrogate: 2-Fluorobiphenyl	*168*		µg/L	200.0		84.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*356*		µg/L	400.0		89.1		15-110				
Surrogate: p-Terphenyl-d14	*183*		µg/L	200.0		91.6		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B393095 - SW-846 3510C													
LCS Dup (B393095-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24									
2,3,4,6-Tetrachlorophenol	55.2	20	µg/L	100.0		55.2		40-140	**44.8**	*	20	R-05	
Atrazine	86.7	20	µg/L	100.0		86.7		40-140	7.91		20		
Benzaldehyde	69.7	10	µg/L	100.0		69.7		40-140	11.6		20		
Biphenyl	60.4	20	µg/L	100.0		60.4		40-140	18.4		20		
Caprolactam	24.2	10	µg/L	100.0		**24.2**	*	40-140	16.3		20	L-04	
Acenaphthene	60.5	5.0	µg/L	100.0		60.5		40-140	17.2		20		
Acenaphthylene	66.7	5.0	µg/L	100.0		66.7		40-140	16.9		20		
Acetophenone	60.8	10	µg/L	100.0		60.8		40-140	11.0		20		
Aniline	56.7	20	µg/L	100.0		56.7		40-140	14.5		50	V-05	‡
Anthracene	76.3	5.0	µg/L	100.0		76.3		40-140	8.61		20		
Benzo(a)anthracene	75.8	5.0	µg/L	100.0		75.8		40-140	8.34		20		
Benzo(a)pyrene	76.3	5.0	µg/L	100.0		76.3		40-140	7.20		20		
Benzo(b)fluoranthene	77.9	5.0	µg/L	100.0		77.9		40-140	6.46		20		
Benzo(g,h,i)perylene	87.0	5.0	µg/L	100.0		87.0		40-140	3.56		20		
Benzo(k)fluoranthene	79.3	5.0	µg/L	100.0		79.3		40-140	5.27		20		
Bis(2-chloroethoxy)methane	68.5	10	µg/L	100.0		68.5		40-140	9.44		20		
Bis(2-chloroethyl)ether	65.4	10	µg/L	100.0		65.4		40-140	10.6		20		
2,2'-oxybis(1-Chloropropane)	63.5	10	µg/L	100.0		63.5		40-140	14.0		20		
Bis(2-Ethylhexyl)phthalate	65.5	10	µg/L	100.0		65.5		40-140	6.01		20		
4-Bromophenylphenylether	74.9	10	µg/L	100.0		74.9		40-140	8.65		20		
Butylbenzylphthalate	70.6	10	µg/L	100.0		70.6		40-140	9.48		20		
Carbazole	80.0	10	µg/L	100.0		80.0		40-140	5.15		20		
4-Chloroaniline	68.0	10	µg/L	100.0		68.0		40-140	12.4		20		
4-Chloro-3-methylphenol	64.3	10	µg/L	100.0		64.3		30-130	8.85		20		
2-Chloronaphthalene	56.8	10	µg/L	100.0		56.8		40-140	15.5		20		
2-Chlorophenol	53.8	10	µg/L	100.0		53.8		30-130	**30.4**	*	20	R-05	
4-Chlorophenylphenylether	66.4	10	µg/L	100.0		66.4		40-140	8.26		20		
Chrysene	75.7	5.0	µg/L	100.0		75.7		40-140	4.81		20		
Dibenz(a,h)anthracene	80.7	5.0	µg/L	100.0		80.7		40-140	4.27		20	V-04	
Dibenzofuran	68.6	5.0	µg/L	100.0		68.6		40-140	13.5		20		
Di-n-butylphthalate	65.9	10	µg/L	100.0		65.9		40-140	6.44		20		
3,3-Dichlorobenzidine	78.8	10	µg/L	100.0		78.8		40-140	7.72		20		
2,4-Dichlorophenol	60.9	10	µg/L	100.0		60.9		30-130	**27.1**	*	20	R-05	
Diethylphthalate	66.1	10	µg/L	100.0		66.1		40-140	6.26		20		
2,4-Dimethylphenol	62.7	10	µg/L	100.0		62.7		30-130	12.8		20		
Dimethylphthalate	71.8	10	µg/L	100.0		71.8		40-140	7.43		50		‡
4,6-Dinitro-2-methylphenol	50.0	20	µg/L	100.0		50.0		30-130	38.3		50		‡
2,4-Dinitrophenol	21.8	10	µg/L	100.0		**21.8**	*	30-130	**84.9**	*	50	L-07A, V-04	‡
2,4-Dinitrotoluene	71.2	10	µg/L	100.0		71.2		40-140	10.1		20		
2,6-Dinitrotoluene	74.3	10	µg/L	100.0		74.3		40-140	7.51		20		
Di-n-octylphthalate	60.7	10	µg/L	100.0		60.7		40-140	7.82		20	V-04	
Fluoranthene	76.8	5.0	µg/L	100.0		76.8		40-140	6.53		20		
Fluorene	69.3	5.0	µg/L	100.0		69.3		40-140	9.77		20		
Hexachlorobenzene	79.4	10	µg/L	100.0		79.4		40-140	8.16		20		
Hexachlorobutadiene	36.9	10	µg/L	100.0		**36.9**	*	40-140	**24.9**	*	20	L-07A	
Hexachlorocyclopentadiene	44.1	10	µg/L	100.0		44.1		30-140	29.6		50	V-06	† ‡
Hexachloroethane	38.2	10	µg/L	100.0		**38.2**	*	40-140	1.97		50	L-04	‡
Indeno(1,2,3-cd)pyrene	85.8	5.0	µg/L	100.0		85.8		40-140	3.10		50	V-04	‡
Isophorone	69.6	10	µg/L	100.0		69.6		40-140	10.8		20		
1-Methylnaphthalene	50.4	5.0	µg/L	100.0		50.4		40-140	20.0		20	R-05	
2-Methylnaphthalene	45.8	5.0	µg/L	100.0		45.8		40-140	**24.1**	*	20	R-05	
2-Methylphenol	58.1	10	µg/L	100.0		58.1		30-130	9.50		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B393095 - SW-846 3510C												
LCS Dup (B393095-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24								
3/4-Methylphenol	53.8	10	µg/L	100.0		53.8	30-130	11.6		20		
Naphthalene	54.4	5.0	µg/L	100.0		54.4	40-140	**22.3**	*	20	R-05	
2-Nitroaniline	81.8	10	µg/L	100.0		81.8	40-140	9.83		20		
3-Nitroaniline	71.7	10	µg/L	100.0		71.7	40-140	7.11		20		
4-Nitroaniline	71.1	10	µg/L	100.0		71.1	40-140	2.45		20		
Nitrobenzene	70.2	10	µg/L	100.0		70.2	40-140	18.9		20		
2-Nitrophenol	57.1	10	µg/L	100.0		57.1	30-130	**30.9**	*	20	R-05	
4-Nitrophenol	23.8	10	µg/L	100.0		23.8	10-130	**53.6**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	74.8	10	µg/L	100.0		74.8	40-140	10.8		20		
N-Nitrosodi-n-propylamine	56.7	10	µg/L	100.0		56.7	40-140	14.0		20		
Pentachlorophenol	42.1	10	µg/L	100.0		42.1	30-130	49.3		50		‡
Phenanthrene	75.1	5.0	µg/L	100.0		75.1	40-140	8.07		20		
Phenol	31.7	10	µg/L	100.0		31.7	20-130	18.0		20		†
Pyrene	77.7	5.0	µg/L	100.0		77.7	40-140	9.82		20		
Pyridine	18.1	20	µg/L	100.0		18.1	10-140	11.9		50	V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	56.8	10	µg/L	100.0		56.8	40-140	**25.0**	*	20	R-05	
2,4,5-Trichlorophenol	62.0	10	µg/L	100.0		62.0	30-130	**31.4**	*	20	R-05	
2,4,6-Trichlorophenol	55.3	10	µg/L	100.0		55.3	30-130	40.2		50		‡
Surrogate: 2-Fluorophenol	*155*		µg/L	400.0		38.7	15-110					
Surrogate: Phenol-d6	*126*		µg/L	400.0		31.4	15-110					
Surrogate: Nitrobenzene-d5	*154*		µg/L	200.0		77.0	30-130					
Surrogate: 2-Fluorobiphenyl	*142*		µg/L	200.0		70.8	30-130					
Surrogate: 2,4,6-Tribromophenol	*259*		µg/L	400.0		64.7	15-110					
Surrogate: p-Terphenyl-d14	*162*		µg/L	200.0		80.8	30-130					

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393150 - SW-846 3510C										
Blank (B393150-BLK1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.72*		µg/L	10.00		27.2	15-110			
LCS (B393150-BS1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	10.8	0.20	µg/L	10.00		108	40-140			
Surrogate: 1,4-Dioxane-d8	*2.87*		µg/L	10.00		28.7	15-110			
LCS Dup (B393150-BSD1)				Prepared: 11/26/24 Analyzed: 12/02/24						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140	7.92	30	
Surrogate: 1,4-Dioxane-d8	*2.74*		µg/L	10.00		27.4	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394095 - EPA 1633										
Blank (B394095-BLK1)				Prepared: 12/12/24 Analyzed: 12/16/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*85.1*		ng/L	79.18		108	5-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394095 - EPA 1633										
Blank (B394095-BLK1)				Prepared: 12/12/24 Analyzed: 12/16/24						
Surrogate: 13C5-PFPeA	*43.1*		ng/L	39.59		109	40-130			
Surrogate: 13C5-PFHxA	*20.9*		ng/L	19.80		105	40-130			
Surrogate: 13C4-PFHpA	*22.5*		ng/L	19.80		114	40-130			
Surrogate: 13C8-PFOA	*21.5*		ng/L	19.80		108	40-130			
Surrogate: 13C9-PFNA	*10.8*		ng/L	9.898		109	40-130			
Surrogate: 13C6-PFDA	*11.1*		ng/L	9.898		112	40-130			
Surrogate: 13C7-PFUnA	*10.3*		ng/L	9.898		104	30-130			
Surrogate: 13C2-PFDoA	*9.23*		ng/L	9.898		93.3	10-130			
Surrogate: 13C2-PFTeDA	*8.82*		ng/L	9.898		89.1	10-130			
Surrogate: 13C3-PFBS	*21.9*		ng/L	19.80		110	40-135			
Surrogate: 13C3-PFHxS	*20.8*		ng/L	19.80		105	40-130			
Surrogate: 13C8-PFOS	*20.6*		ng/L	19.80		104	40-130			
Surrogate: 13C2-4:2FTS	*45.2*		ng/L	39.59		114	40-200			
Surrogate: 13C2-6:2FTS	*40.9*		ng/L	39.59		103	40-200			
Surrogate: 13C2-8:2FTS	*36.3*		ng/L	39.59		91.7	40-300			
Surrogate: 13C8-PFOSA	*19.6*		ng/L	19.80		98.9	40-130			
Surrogate: D3-NMeFOSA	*16.7*		ng/L	19.80		84.6	10-130			
Surrogate: D5-NEtFOSA	*16.7*		ng/L	19.80		84.4	10-130			
Surrogate: D3-NMeFOSAA	*37.7*		ng/L	39.59		95.3	40-170			
Surrogate: D5-NEtFOSAA	*35.9*		ng/L	39.59		90.6	25-135			
Surrogate: D7-NMeFOSE	*185*		ng/L	198.0		93.2	10-130			
Surrogate: D9-NEtFOSE	*178*		ng/L	198.0		90.1	10-130			
Surrogate: 13C3-HFPO-DA	*98.3*		ng/L	79.18		124	40-130			
LCS (B394095-BS1)				Prepared: 12/12/24 Analyzed: 12/16/24						
Perfluorobutanoic acid (PFBA)	78.2	6.3	ng/L	79.05		98.9	70-140			
Perfluoropentanoic acid (PFPeA)	38.7	3.2	ng/L	39.53		98.0	65-135			
Perfluorohexanoic acid (PFHxA)	20.1	1.6	ng/L	19.76		102	70-145			
Perfluoroheptanoic acid (PFHpA)	19.8	1.6	ng/L	19.76		100	70-150			
Perfluorooctanoic acid (PFOA)	20.3	1.6	ng/L	19.76		103	70-150			
Perfluorononanoic acid (PFNA)	19.0	1.6	ng/L	19.76		96.1	70-150			
Perfluorodecanoic acid (PFDA)	21.4	1.6	ng/L	19.76		109	70-140			
Perfluoroundecanoic acid (PFUnA)	21.1	1.6	ng/L	19.76		107	70-145			
Perfluorododecanoic acid (PFDoA)	20.9	1.6	ng/L	19.76		106	70-140			
Perfluorotridecanoic acid (PFTrDA)	20.5	1.6	ng/L	19.76		104	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.3	1.6	ng/L	19.76		103	60-140			
Perfluorobutanesulfonic acid (PFBS)	19.7	1.6	ng/L	17.55		112	60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.9	1.6	ng/L	18.58		107	65-140			
Perfluorohexanesulfonic acid (PFHxS)	19.2	1.6	ng/L	18.02		107	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	22.9	1.6	ng/L	18.81		122	70-150			
Perfluorooctanesulfonic acid (PFOS)	19.5	1.6	ng/L	18.34		106	55-150			
Perfluorononanesulfonic acid (PFNS)	21.9	1.6	ng/L	18.97		115	65-145			
Perfluorodecanesulfonic acid (PFDS)	21.7	1.6	ng/L	19.05		114	60-145			
Perfluorododecanesulfonic acid (PFDoS)	19.8	1.6	ng/L	19.13		103	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	77.7	6.3	ng/L	74.07		105	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	76.9	6.3	ng/L	75.18		102	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.8	6.3	ng/L	75.89		106	60-150			
Perfluorooctanesulfonamide (PFOSA)	20.3	1.6	ng/L	19.76		103	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.8	1.6	ng/L	19.76		100	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394095 - EPA 1633										
LCS (B394095-BS1)				Prepared: 12/12/24 Analyzed: 12/16/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.5	1.6	ng/L	19.76		98.5	65-145			
N-MeFOSAA (NMeFOSAA)	20.4	1.6	ng/L	19.76		103	50-140			
N-EtFOSAA (NEtFOSAA)	20.0	1.6	ng/L	19.76		101	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	209	16	ng/L	197.6		106	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	215	16	ng/L	197.6		109	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2	6.3	ng/L	79.05		107	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	74.6	6.3	ng/L	74.70		99.9	65-145			
9Cl-PF3ONS (F53B Minor)	83.1	6.3	ng/L	73.75		113	70-155			
11Cl-PF3OUdS (F53B Major)	81.4	6.3	ng/L	73.83		110	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	97.1	7.9	ng/L	98.81		98.3	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	474	40	ng/L	494.1		96.0	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	488	40	ng/L	494.1		98.8	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	35.2	3.2	ng/L	35.26		99.8	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.8	3.2	ng/L	39.53		103	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.4	3.2	ng/L	39.53		105	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.5	3.2	ng/L	39.53		118	50-150			
Surrogate: 13C4-PFBA	*76.4*		ng/L	79.05		96.6	5-130			
Surrogate: 13C5-PFPeA	*38.9*		ng/L	39.53		98.5	40-130			
Surrogate: 13C5-PFHxA	*19.4*		ng/L	19.76		98.3	40-130			
Surrogate: 13C4-PFHpA	*19.6*		ng/L	19.76		99.0	40-130			
Surrogate: 13C8-PFOA	*18.0*		ng/L	19.76		90.8	40-130			
Surrogate: 13C9-PFNA	*9.76*		ng/L	9.881		98.7	40-130			
Surrogate: 13C6-PFDA	*9.64*		ng/L	9.881		97.6	40-130			
Surrogate: 13C7-PFUnA	*9.16*		ng/L	9.881		92.7	30-130			
Surrogate: 13C2-PFDoA	*8.69*		ng/L	9.881		88.0	10-130			
Surrogate: 13C2-PFTeDA	*8.34*		ng/L	9.881		84.4	10-130			
Surrogate: 13C3-PFBS	*18.4*		ng/L	19.76		93.1	40-135			
Surrogate: 13C3-PFHxS	*18.5*		ng/L	19.76		93.4	40-130			
Surrogate: 13C8-PFOS	*17.1*		ng/L	19.76		86.6	40-130			
Surrogate: 13C2-4:2FTS	*37.8*		ng/L	39.53		95.7	40-200			
Surrogate: 13C2-6:2FTS	*37.3*		ng/L	39.53		94.4	40-200			
Surrogate: 13C2-8:2FTS	*33.2*		ng/L	39.53		84.0	40-300			
Surrogate: 13C8-PFOSA	*17.5*		ng/L	19.76		88.5	40-130			
Surrogate: D3-NMeFOSA	*14.8*		ng/L	19.76		74.7	10-130			
Surrogate: D5-NEtFOSA	*14.7*		ng/L	19.76		74.1	10-130			
Surrogate: D3-NMeFOSAA	*35.6*		ng/L	39.53		90.0	40-170			
Surrogate: D5-NEtFOSAA	*33.6*		ng/L	39.53		84.9	25-135			
Surrogate: D7-NMeFOSE	*164*		ng/L	197.6		83.0	10-130			
Surrogate: D9-NEtFOSE	*155*		ng/L	197.6		78.3	10-130			
Surrogate: 13C3-HFPO-DA	*86.2*		ng/L	79.05		109	40-130			
MRL Check (B394095-MRL1)				Prepared: 12/12/24 Analyzed: 12/18/24						
Perfluorobutanoic acid (PFBA)	11.5	6.3	ng/L	12.64		91.0	70-140			
Perfluoropentanoic acid (PFPeA)	5.82	3.2	ng/L	6.322		92.0	65-135			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394095 - EPA 1633										
MRL Check (B394095-MRL1)				Prepared: 12/12/24 Analyzed: 12/18/24						
Perfluorohexanoic acid (PFHxA)	2.91	1.6	ng/L	3.161		92.1	70-145			
Perfluoroheptanoic acid (PFHpA)	2.67	1.6	ng/L	3.161		84.6	70-150			
Perfluorooctanoic acid (PFOA)	2.65	1.6	ng/L	3.161		83.8	70-150			
Perfluorononanoic acid (PFNA)	2.75	1.6	ng/L	3.161		86.9	70-150			
Perfluorodecanoic acid (PFDA)	2.80	1.6	ng/L	3.161		88.7	70-140			
Perfluoroundecanoic acid (PFUnA)	3.05	1.6	ng/L	3.161		96.4	70-145			
Perfluorododecanoic acid (PFDoA)	2.90	1.6	ng/L	3.161		91.6	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.54	1.6	ng/L	3.161		80.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	2.99	1.6	ng/L	3.161		94.5	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.44	1.6	ng/L	2.807		87.1	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.57	1.6	ng/L	2.971		86.5	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.72	1.6	ng/L	2.883		94.3	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.82	1.6	ng/L	3.009		93.7	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.51	1.6	ng/L	2.933		85.6	55-150			
Perfluorononanesulfonic acid (PFNS)	2.65	1.6	ng/L	3.034		87.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.71	1.6	ng/L	3.047		88.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.40	1.6	ng/L	3.060		78.4	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.5	6.3	ng/L	11.85		97.3	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	12.0	6.3	ng/L	12.02		99.8	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	11.9	6.3	ng/L	12.14		98.2	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.78	1.6	ng/L	3.161		88.1	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.93	1.6	ng/L	3.161		92.7	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.00	1.6	ng/L	3.161		94.9	65-145			
N-MeFOSAA (NMeFOSAA)	2.55	1.6	ng/L	3.161		80.8	50-140			
N-EtFOSAA (NEtFOSAA)	2.86	1.6	ng/L	3.161		90.5	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	29.4	16	ng/L	31.61		93.1	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	30.1	16	ng/L	31.61		95.1	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.5	6.3	ng/L	12.64		91.2	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.6	6.3	ng/L	11.95		88.9	65-145			
9Cl-PF3ONS (F53B Minor)	11.1	6.3	ng/L	11.80		94.0	70-155			
11Cl-PF3OUdS (F53B Major)	11.1	6.3	ng/L	11.92		92.8	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.3	7.9	ng/L	15.80		84.4	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	67.8	40	ng/L	79.02		85.7	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	65.7	40	ng/L	79.02		83.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.06	3.2	ng/L	5.639		89.7	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.57	3.2	ng/L	6.322		88.1	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	6.00	3.2	ng/L	6.322		94.9	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.86	3.2	ng/L	6.322		92.7	50-150			
Surrogate: 13C4-PFBA	*73.0*		ng/L	79.02		92.3	5-130			
Surrogate: 13C5-PFPeA	*35.9*		ng/L	39.51		90.7	40-130			
Surrogate: 13C5-PFHxA	*18.6*		ng/L	19.76		94.2	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394095 - EPA 1633										
MRL Check (B394095-MRL1)				Prepared: 12/12/24 Analyzed: 12/18/24						
Surrogate: 13C4-PFHpA	*19.0*		ng/L	19.76		96.1	40-130			
Surrogate: 13C8-PFOA	*18.8*		ng/L	19.76		95.1	40-130			
Surrogate: 13C9-PFNA	*9.46*		ng/L	9.878		95.8	40-130			
Surrogate: 13C6-PFDA	*8.84*		ng/L	9.878		89.5	40-130			
Surrogate: 13C7-PFUnA	*8.78*		ng/L	9.878		88.9	30-130			
Surrogate: 13C2-PFDoA	*8.33*		ng/L	9.878		84.4	10-130			
Surrogate: 13C2-PFTeDA	*7.32*		ng/L	9.878		74.1	10-130			
Surrogate: 13C3-PFBS	*18.9*		ng/L	19.76		95.6	40-135			
Surrogate: 13C3-PFHxS	*18.3*		ng/L	19.76		92.4	40-130			
Surrogate: 13C8-PFOS	*18.7*		ng/L	19.76		94.5	40-130			
Surrogate: 13C2-4:2FTS	*36.1*		ng/L	39.51		91.5	40-200			
Surrogate: 13C2-6:2FTS	*35.4*		ng/L	39.51		89.6	40-200			
Surrogate: 13C2-8:2FTS	*33.9*		ng/L	39.51		85.8	40-300			
Surrogate: 13C8-PFOSA	*16.6*		ng/L	19.76		83.8	40-130			
Surrogate: D3-NMeFOSA	*14.0*		ng/L	19.76		70.8	10-130			
Surrogate: D5-NEtFOSA	*13.7*		ng/L	19.76		69.2	10-130			
Surrogate: D3-NMeFOSAA	*35.7*		ng/L	39.51		90.5	40-170			
Surrogate: D5-NEtFOSAA	*32.2*		ng/L	39.51		81.6	25-135			
Surrogate: D7-NMeFOSE	*156*		ng/L	197.6		78.7	10-130			
Surrogate: D9-NEtFOSE	*149*		ng/L	197.6		75.3	10-130			
Surrogate: 13C3-HFPO-DA	*77.2*		ng/L	79.02		97.6	40-130			

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393095 - SW-846 3510C										
Blank (B393095-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
Blank (B393097-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							V-05
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*3.40*		µg/L	4.000		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.28*		µg/L	4.000		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.80*		µg/L	4.000		70.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.71*		µg/L	4.000		67.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
LCS (B393097-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	1.9	0.050	µg/L	2.000		96.3	0-200			
alpha-Chlordane [2C]	1.7	0.050	µg/L	2.000		87.0	0-200			
gamma-Chlordane	1.8	0.050	µg/L	2.000		92.3	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		87.4	0-200			
Aldrin	1.7	0.050	µg/L	2.000		84.4	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.000		76.5	40-140			
alpha-BHC	1.8	0.050	µg/L	2.000		88.0	40-140			
alpha-BHC [2C]	1.6	0.050	µg/L	2.000		82.5	40-140			
beta-BHC	1.9	0.050	µg/L	2.000		94.9	40-140			
beta-BHC [2C]	1.8	0.050	µg/L	2.000		87.5	40-140			
delta-BHC	1.7	0.050	µg/L	2.000		84.0	40-140			
delta-BHC [2C]	1.5	0.050	µg/L	2.000		76.2	40-140			
gamma-BHC (Lindane)	1.8	0.030	µg/L	2.000		88.3	40-140			
gamma-BHC (Lindane) [2C]	1.6	0.030	µg/L	2.000		81.2	40-140			
4,4'-DDD	2.1	0.040	µg/L	2.000		104	40-140			
4,4'-DDD [2C]	1.9	0.040	µg/L	2.000		94.5	40-140			
4,4'-DDE	2.0	0.040	µg/L	2.000		101	40-140			
4,4'-DDE [2C]	1.8	0.040	µg/L	2.000		90.5	40-140			
4,4'-DDT	1.9	0.040	µg/L	2.000		94.0	40-140			
4,4'-DDT [2C]	1.7	0.040	µg/L	2.000		83.0	40-140			
Dieldrin	1.9	0.0020	µg/L	2.000		94.5	40-140			
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		86.0	40-140			
Endosulfan I	1.9	0.050	µg/L	2.000		96.1	40-140			
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		86.1	40-140			
Endosulfan II	2.0	0.080	µg/L	2.000		99.0	40-140			
Endosulfan II [2C]	1.8	0.080	µg/L	2.000		89.0	40-140			
Endosulfan Sulfate	1.9	0.080	µg/L	2.000		94.4	40-140			
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.000		85.9	40-140			
Endrin	2.0	0.080	µg/L	2.000		97.8	40-140			
Endrin [2C]	1.7	0.080	µg/L	2.000		87.2	40-140			
Endrin Aldehyde	1.7	0.080	µg/L	2.000		85.8	40-140			
Endrin Aldehyde [2C]	1.6	0.080	µg/L	2.000		77.8	40-140			
Endrin Ketone	1.9	0.080	µg/L	2.000		93.6	40-140			
Endrin Ketone [2C]	1.7	0.080	µg/L	2.000		85.8	40-140			
Heptachlor	1.7	0.050	µg/L	2.000		83.5	40-140			
Heptachlor [2C]	1.6	0.050	µg/L	2.000		77.6	40-140			
Heptachlor Epoxide	1.9	0.050	µg/L	2.000		93.3	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		84.3	40-140			
Methoxychlor	1.7	0.50	µg/L	2.000		86.9	40-140			
Methoxychlor [2C]	1.5	0.50	µg/L	2.000		77.5	40-140			V-05
Surrogate: Decachlorobiphenyl	*3.75*		µg/L	4.000		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.60*		µg/L	4.000		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	*3.09*		µg/L	4.000		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.87*		µg/L	4.000		71.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393097 - SW-846 3510C										
LCS Dup (B393097-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
alpha-Chlordane	2.1	0.050	µg/L	2.000		107	0-200	11.0		
alpha-Chlordane [2C]	1.9	0.050	µg/L	2.000		97.3	0-200	11.1		
gamma-Chlordane	2.1	0.050	µg/L	2.000		103	0-200	11.2		
gamma-Chlordane [2C]	2.0	0.050	µg/L	2.000		97.7	0-200	11.1		
Aldrin	2.0	0.050	µg/L	2.000		99.4	40-140	16.3	20	
Aldrin [2C]	1.8	0.050	µg/L	2.000		89.5	40-140	15.6	20	
alpha-BHC	2.1	0.050	µg/L	2.000		106	40-140	18.7	20	
alpha-BHC [2C]	2.0	0.050	µg/L	2.000		98.4	40-140	17.6	20	
beta-BHC	2.1	0.050	µg/L	2.000		107	40-140	12.0	20	
beta-BHC [2C]	2.0	0.050	µg/L	2.000		98.6	40-140	11.8	20	
delta-BHC	1.9	0.050	µg/L	2.000		94.6	40-140	11.8	20	
delta-BHC [2C]	1.7	0.050	µg/L	2.000		85.7	40-140	11.7	20	
gamma-BHC (Lindane)	2.1	0.030	µg/L	2.000		104	40-140	16.5	20	
gamma-BHC (Lindane) [2C]	1.9	0.030	µg/L	2.000		95.1	40-140	15.7	20	
4,4'-DDD	2.2	0.040	µg/L	2.000		112	40-140	7.38	20	
4,4'-DDD [2C]	2.0	0.040	µg/L	2.000		102	40-140	7.44	20	
4,4'-DDE	2.2	0.040	µg/L	2.000		110	40-140	8.38	20	
4,4'-DDE [2C]	2.0	0.040	µg/L	2.000		98.0	40-140	7.88	20	
4,4'-DDT	2.0	0.040	µg/L	2.000		101	40-140	7.62	20	
4,4'-DDT [2C]	1.8	0.040	µg/L	2.000		89.0	40-140	6.98	20	
Dieldrin	2.1	0.0020	µg/L	2.000		104	40-140	9.81	20	
Dieldrin [2C]	1.9	0.0020	µg/L	2.000		94.2	40-140	9.18	20	
Endosulfan I	2.1	0.050	µg/L	2.000		107	40-140	10.5	20	
Endosulfan I [2C]	1.9	0.050	µg/L	2.000		94.8	40-140	9.68	20	
Endosulfan II	2.1	0.080	µg/L	2.000		107	40-140	7.92	20	
Endosulfan II [2C]	1.9	0.080	µg/L	2.000		96.2	40-140	7.76	20	
Endosulfan Sulfate	2.0	0.080	µg/L	2.000		102	40-140	7.97	20	
Endosulfan Sulfate [2C]	1.8	0.080	µg/L	2.000		92.2	40-140	7.15	20	
Endrin	2.1	0.080	µg/L	2.000		107	40-140	9.31	20	
Endrin [2C]	1.9	0.080	µg/L	2.000		95.4	40-140	8.90	20	
Endrin Aldehyde	1.9	0.080	µg/L	2.000		93.2	40-140	8.28	20	
Endrin Aldehyde [2C]	1.7	0.080	µg/L	2.000		83.9	40-140	7.57	20	
Endrin Ketone	2.0	0.080	µg/L	2.000		101	40-140	7.49	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.000		92.1	40-140	7.02	20	
Heptachlor	2.0	0.050	µg/L	2.000		99.0	40-140	16.9	20	
Heptachlor [2C]	1.8	0.050	µg/L	2.000		91.5	40-140	16.5	20	
Heptachlor Epoxide	2.1	0.050	µg/L	2.000		105	40-140	11.9	20	
Heptachlor Epoxide [2C]	1.9	0.050	µg/L	2.000		94.3	40-140	11.2	20	
Methoxychlor	1.9	0.50	µg/L	2.000		93.7	40-140	7.47	20	
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		83.1	40-140	7.05	20	V-05
Surrogate: Decachlorobiphenyl	*3.58*		µg/L	4.000		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.45*		µg/L	4.000		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.33*		µg/L	4.000		83.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.06*		µg/L	4.000		76.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393096 - SW-846 3510C										
Blank (B393096-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*3.14*		µg/L	4.000		78.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.56*		µg/L	4.000		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.49*		µg/L	4.000		62.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.78*		µg/L	4.000		69.4	30-150			
LCS (B393096-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	0.82	0.20	µg/L	1.000		82.2	40-140			
Aroclor-1016 [2C]	0.75	0.20	µg/L	1.000		75.2	40-140			
Aroclor-1260	0.89	0.20	µg/L	1.000		89.4	40-140			
Aroclor-1260 [2C]	0.79	0.20	µg/L	1.000		79.2	40-140			
Surrogate: Decachlorobiphenyl	*2.80*		µg/L	4.000		69.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.18*		µg/L	4.000		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.68*		µg/L	4.000		67.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.04*		µg/L	4.000		76.0	30-150			
LCS Dup (B393096-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Aroclor-1016	0.90	0.20	µg/L	1.000		89.9	40-140	8.95	20	
Aroclor-1016 [2C]	0.82	0.20	µg/L	1.000		82.2	40-140	8.97	20	
Aroclor-1260	0.96	0.20	µg/L	1.000		96.1	40-140	7.25	20	
Aroclor-1260 [2C]	0.86	0.20	µg/L	1.000		85.7	40-140	7.86	20	
Surrogate: Decachlorobiphenyl	*2.86*		µg/L	4.000		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.22*		µg/L	4.000		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.99*		µg/L	4.000		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.36*		µg/L	4.000		84.1	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394668 - SW-846 7470A Prep										
Blank (B394668-BLK1)				Prepared: 12/16/24 Analyzed: 12/17/24						
Mercury	ND	0.00020	mg/L							
LCS (B394668-BS1)				Prepared: 12/16/24 Analyzed: 12/17/24						
Mercury	0.00423	0.00020	mg/L	0.004020		105	80-120			
LCS Dup (B394668-BSD1)				Prepared: 12/16/24 Analyzed: 12/17/24						
Mercury	0.00408	0.00020	mg/L	0.004020		101	80-120	3.61	20	
Batch B394850 - SW-846 3005A										
Blank (B394850-BLK1)				Prepared: 12/17/24 Analyzed: 12/18/24						
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	0.57	2.0	mg/L							J
Thallium	ND	0.050	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B394850-BLK2)				Prepared: 12/17/24 Analyzed: 12/21/24						
Aluminum	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B394850-BLK3)				Prepared: 12/17/24 Analyzed: 12/23/24						
Arsenic	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
LCS (B394850-BS1)				Prepared: 12/17/24 Analyzed: 12/18/24						
Antimony	0.517	0.050	mg/L	0.5000		103	80-120			
Barium	0.540	0.050	mg/L	0.5000		108	80-120			
Beryllium	0.558	0.0040	mg/L	0.5000		112	80-120			
Cadmium	0.530	0.0040	mg/L	0.5000		106	80-120			
Calcium	4.22	0.50	mg/L	4.000		105	80-120			
Chromium	0.538	0.010	mg/L	0.5000		108	80-120			
Cobalt	0.540	0.010	mg/L	0.5000		108	80-120			
Copper	1.04	0.010	mg/L	1.000		104	80-120			
Iron	4.31	0.050	mg/L	4.000		108	80-120			
Magnesium	4.07	0.050	mg/L	4.000		102	80-120			
Manganese	0.541	0.010	mg/L	0.5000		108	80-120			
Nickel	0.540	0.010	mg/L	0.5000		108	80-120			
Selenium	0.522	0.050	mg/L	0.5000		104	80-120			
Silver	0.558	0.010	mg/L	0.5000		112	80-120			
Sodium	4.70	2.0	mg/L	4.000		117	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394850 - SW-846 3005A										
LCS (B394850-BS1)				Prepared: 12/17/24 Analyzed: 12/18/24						
Zinc	1.08	0.010	mg/L	1.000		108	80-120			
LCS (B394850-BS2)				Prepared: 12/17/24 Analyzed: 12/21/24						
Aluminum	0.527	0.050	mg/L	0.5000		105	80-120			
Lead	0.529	0.010	mg/L	0.5000		106	80-120			
Vanadium	0.534	0.010	mg/L	0.5000		107	80-120			
LCS (B394850-BS3)				Prepared: 12/17/24 Analyzed: 12/23/24						
Arsenic	0.507	0.010	mg/L	0.5000		101	80-120			
Potassium	4.25	2.0	mg/L	4.000		106	80-120			
LCS (B394850-BS4)				Prepared: 12/17/24 Analyzed: 12/24/24						
Thallium	0.523	0.050	mg/L	0.5000		105	80-120			
LCS Dup (B394850-BSD1)				Prepared: 12/17/24 Analyzed: 12/18/24						
Antimony	0.520	0.050	mg/L	0.5000		104	80-120	0.577	20	
Barium	0.532	0.050	mg/L	0.5000		106	80-120	1.53	20	
Beryllium	0.548	0.0040	mg/L	0.5000		110	80-120	1.87	20	
Cadmium	0.522	0.0040	mg/L	0.5000		104	80-120	1.57	20	
Calcium	4.17	0.50	mg/L	4.000		104	80-120	1.20	20	
Chromium	0.531	0.010	mg/L	0.5000		106	80-120	1.23	20	
Cobalt	0.530	0.010	mg/L	0.5000		106	80-120	1.72	20	
Copper	1.03	0.010	mg/L	1.000		103	80-120	0.764	20	
Iron	4.25	0.050	mg/L	4.000		106	80-120	1.57	20	
Magnesium	4.03	0.050	mg/L	4.000		101	80-120	0.757	20	
Manganese	0.534	0.010	mg/L	0.5000		107	80-120	1.26	20	
Nickel	0.530	0.010	mg/L	0.5000		106	80-120	1.90	30	
Selenium	0.529	0.050	mg/L	0.5000		106	80-120	1.31	20	
Silver	0.551	0.010	mg/L	0.5000		110	80-120	1.27	20	
Sodium	4.49	2.0	mg/L	4.000		112	80-120	4.60	20	
Zinc	1.06	0.010	mg/L	1.000		106	80-120	1.90	20	
LCS Dup (B394850-BSD2)				Prepared: 12/17/24 Analyzed: 12/21/24						
Aluminum	0.528	0.050	mg/L	0.5000		106	80-120	0.139	30	
Lead	0.532	0.010	mg/L	0.5000		106	80-120	0.526	20	
Vanadium	0.538	0.010	mg/L	0.5000		108	80-120	0.710	20	
LCS Dup (B394850-BSD3)				Prepared: 12/17/24 Analyzed: 12/23/24						
Arsenic	0.490	0.010	mg/L	0.5000		97.9	80-120	3.49	20	
Potassium	4.18	2.0	mg/L	4.000		104	80-120	1.82	20	
LCS Dup (B394850-BSD4)				Prepared: 12/17/24 Analyzed: 12/24/24						
Thallium	0.522	0.050	mg/L	0.5000		104	80-120	0.144	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B394850 - SW-846 3005A										
Dilution Check (B394850-SRL1)		**Source: 24K1550-03**		Prepared: 12/17/24 Analyzed: 12/18/24						
Antimony	ND	0.25	mg/L		ND				20	
Barium	0.159	0.25	mg/L		0.155			2.37	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	1.57	0.25	mg/L		1.46			7.43	20	
Manganese	0.222	0.050	mg/L		0.214			3.47	20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	15.1	10	mg/L		13.4			12.0	20	
Zinc	ND	0.050	mg/L		ND				20	
Dilution Check (B394850-SRL2)		**Source: 24K1564-01**		Prepared: 12/17/24 Analyzed: 12/18/24						
Antimony	ND	0.25	mg/L		ND				20	
Barium	0.126	0.25	mg/L		0.121			3.46	20	J
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.846	0.25	mg/L		0.739			13.5	20	
Manganese	0.468	0.050	mg/L		0.437			6.74	20	
Nickel	ND	0.050	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	76.6	10	mg/L		75.4			1.57	20	
Zinc	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393436 - SW-846 9010C										
Blank (B393436-BLK1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	ND	0.010	mg/L							
LCS (B393436-BS1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	0.27	0.010	mg/L	0.2999		89.1	80-120			
LCS Dup (B393436-BSD1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Cyanide	0.27	0.010	mg/L	0.2999		88.5	80-120	0.696	20	

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BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM1	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.71
Endrin [1]	5.19

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.51
Endrin [2]	8.36

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM2	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.52
Endrin [1]	2.00

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	2.34

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM3	Analyzed:	11/27/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.24
Endrin [1]	6.49

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BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM3	Analyzed:	11/27/2024

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.45
Endrin [2]	6.88

BREAKDOWN REPORT

Lab Sample ID:	S114666-PEM4	Analyzed:	11/28/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.06
Endrin [1]	4.87

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.13
Endrin [2]	5.37

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B393096-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.75	8.9
Aroclor-1260	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	0.79	11.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B393096-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.90	
	2	0.000	0.000	0.000	0.82	9.3
Aroclor-1260	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.86	11.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B393097-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.351	7.320	7.380	2.1	
	2	7.414	7.383	7.443	1.9	10.0
4,4'-DDE	1	6.904	6.873	6.933	2.0	
	2	6.974	6.944	7.004	1.8	10.5
4,4'-DDT	1	7.567	7.536	7.596	1.9	
	2	7.658	7.628	7.688	1.7	11.1
Aldrin	1	6.233	6.202	6.262	1.7	
	2	6.200	6.169	6.229	1.5	12.5
alpha-BHC	1	5.507	5.476	5.536	1.8	
	2	5.473	5.442	5.502	1.6	11.8
alpha-Chlordane	1	6.846	6.816	6.876	1.9	
	2	6.844	6.813	6.873	1.7	11.1
beta-BHC	1	5.765	5.734	5.794	1.9	
	2	5.751	5.720	5.780	1.8	5.4
delta-BHC	1	5.883	5.852	5.912	1.7	
	2	5.942	5.911	5.971	1.5	12.5
Dieldrin	1	7.124	7.094	7.154	1.9	
	2	7.087	7.056	7.116	1.7	11.1
Endosulfan I	1	6.946	6.916	6.976	1.9	
	2	6.883	6.852	6.912	1.7	11.1
Endosulfan II	1	7.468	7.437	7.497	2.0	
	2	7.480	7.449	7.509	1.8	10.5
Endosulfan Sulfate	1	8.117	8.086	8.146	1.9	
	2	7.961	7.931	7.991	1.7	11.1
Endrin	1	7.299	7.268	7.328	2.0	
	2	7.315	7.284	7.344	1.7	16.2
Endrin Aldehyde	1	7.793	7.763	7.823	1.7	
	2	7.744	7.714	7.774	1.6	6.1
Endrin Ketone	1	8.307	8.276	8.336	1.9	
	2	8.331	8.301	8.361	1.7	11.1
gamma-BHC (Lindane)	1	5.710	5.679	5.739	1.8	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B393097-BS1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.696	5.665	5.725	1.6	11.8
gamma-Chlordane	1	6.749	6.719	6.779	1.8	
	2	6.737	6.706	6.766	1.7	11.1
Heptachlor	1	6.026	5.996	6.056	1.7	
	2	5.983	5.951	6.011	1.6	6.1
Heptachlor Epoxide	1	6.660	6.629	6.689	1.9	
	2	6.600	6.569	6.629	1.7	11.1
Methoxychlor	1	7.948	7.917	7.977	1.7	
	2	8.186	8.156	8.216	1.5	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B393097-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.351	7.320	7.380	2.2	
	2	7.413	7.383	7.443	2.0	9.5
4,4'-DDE	1	6.903	6.873	6.933	2.2	
	2	6.974	6.944	7.004	2.0	9.5
4,4'-DDT	1	7.567	7.536	7.596	2.0	
	2	7.658	7.628	7.688	1.8	10.5
Aldrin	1	6.232	6.202	6.262	2.0	
	2	6.200	6.169	6.229	1.8	10.5
alpha-BHC	1	5.507	5.476	5.536	2.1	
	2	5.473	5.442	5.502	2.0	4.9
alpha-Chlordane	1	6.846	6.816	6.876	2.1	
	2	6.843	6.813	6.873	1.9	14.6
beta-BHC	1	5.765	5.734	5.794	2.1	
	2	5.751	5.720	5.780	2.0	4.9
delta-BHC	1	5.882	5.852	5.912	1.9	
	2	5.942	5.911	5.971	1.7	11.1
Dieldrin	1	7.124	7.094	7.154	2.1	
	2	7.086	7.056	7.116	1.9	10.0
Endosulfan I	1	6.945	6.916	6.976	2.1	
	2	6.883	6.852	6.912	1.9	10.0
Endosulfan II	1	7.467	7.437	7.497	2.1	
	2	7.479	7.449	7.509	1.9	10.0
Endosulfan Sulfate	1	8.116	8.086	8.146	2.0	
	2	7.960	7.931	7.991	1.8	10.5
Endrin	1	7.298	7.268	7.328	2.1	
	2	7.315	7.284	7.344	1.9	14.6
Endrin Aldehyde	1	7.792	7.763	7.823	1.9	
	2	7.743	7.714	7.774	1.7	11.1
Endrin Ketone	1	8.307	8.276	8.336	2.0	
	2	8.330	8.301	8.361	1.8	10.5
gamma-BHC (Lindane)	1	5.710	5.679	5.739	2.1	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B393097-BSD1 Date(s) Analyzed: 11/27/2024 11/27/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.696	5.665	5.725	1.9	10.0
gamma-Chlordane	1	6.749	6.719	6.779	2.1	
	2	6.737	6.706	6.766	2.0	4.9
Heptachlor	1	6.026	5.996	6.056	2.0	
	2	5.982	5.951	6.011	1.8	10.5
Heptachlor Epoxide	1	6.659	6.629	6.689	2.1	
	2	6.600	6.569	6.629	1.9	10.0
Methoxychlor	1	7.947	7.917	7.977	1.9	
	2	8.185	8.156	8.216	1.7	11.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

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CHAIN OF CUSTODY RECORD (New York)

24K1835

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: E+E
Consultant Address: One Penn Plaza, New York City, NY
Consultant Phone: 732-979-7572
Callout Project Name:
Project Location: Court and Luquer St, Brooklyn, NY
Callout Number: 152447
Site/Spill Number: 224414
Project Manager: Greg Mayer
Pace Analytical Quote Name/Number:
Invoice Recipient: Greg Mayer
Sampled By: Greg Mayer

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat B.
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Mercury 7471B	Cyanide 9010B			# of Containers	[2] Preservation Code	[3] Container Code
								3	2	4	4	1	3	1	1					
1	CLMW-06	11/20/24	11:15		X	GW		X	X	X	X	X	X	X	X					
2	Trip Blank	11/20/24	—		—	AQ		X												

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	11/20/24 13:00
Received by: (signature) Pace	11/20 13:00
Relinquished by: (signature) Pace	11/20 18:30
Received by: (signature) PACE	11/20 1855
Relinquished by: (signature) PACE	11/20/24
Received by: (signature)	Date/Time: 11/21/24 0900

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client E+E

Project CO # 152447

MCP/RCP Required N/A

Deliverable Package Requirement ~~N/A~~ Cat B

Location Court and Livgver St, Brooklyn, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time MM / 11-21-24 / 0115

Back-Sheet By / Date / Time RL / 11-22-24 / 1437

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp < 6° C Actual Temperature 1.7

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☐

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers	2																			
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL		6																			
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL		2																			
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric			1																			
NaOH			1																			
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl			3	2																		
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other/Fill in																				
125 mL Plastic			1																			

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December 5, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24J4506

Enclosed are results of analyses for samples as received by the laboratory on October 31, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/5/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4506

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-06-Z25-26	24J4506-01	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-06-Z36-37	24J4506-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-06-Z42-43	24J4506-03	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/5/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4506

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-06-Z48-49	24J4506-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-03-Z12-13	24J4506-05	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-03-Z21-22	24J4506-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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50 Lakefront Boulevard #111
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ATTN: Aaron Fischer

REPORT DATE: 12/5/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4506

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-03-Z35-36	24J4506-07	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-03-Z42-43	24J4506-08	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
FB-241030	24J4506-09	Field Blank		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

Z-01

Non-extracted internal standard compound recovery <50%. Possible high bias present on associated extracted internal standard recoveries

Analyte & Samples(s) Qualified:

13C2-PFTeDA
24J4506-05RE1[CLMW-03-Z12-13]

Z-01a

Non-extracted internal standard compound recovery <50%. Possible high bias present on associated extracted internal standard recoveries.

Analyte & Samples(s) Qualified:

13C2-PFDA
24J4506-05RE1[CLMW-03-Z12-13]

13C2-PFDoA
24J4506-05RE1[CLMW-03-Z12-13]

13C4-PFOA
24J4506-05RE1[CLMW-03-Z12-13]

13C5-PFNA
24J4506-05RE1[CLMW-03-Z12-13]

13C6-PFDA
24J4506-05RE1[CLMW-03-Z12-13]

13C7-PFUnA
24J4506-05RE1[CLMW-03-Z12-13]

13C8-PFOA
24J4506-05RE1[CLMW-03-Z12-13]

13C9-PFNA
24J4506-05RE1[CLMW-03-Z12-13]

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43]

SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Manganese
B391603-BSD1

SW-846 8081B

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49]

SW-846 8260D

Qualifications:

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Acetone
B391462-BSD1

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

4-Bromofluorobenzene
24J4506-09[FB-241030]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Acetone
24J4506-09[FB-241030], B391462-BLK1, B391462-BS1, B391462-BSD1, S113482-CCV1

Ethanol
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391435-BLK1, B391435-BS2, B391435-BSD2, S 113406-CCV2

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzene
B391462-BS1, B391462-BSD1, S113482-CCV1

Carbon Tetrachloride
B391462-BS1, B391462-BSD1, S113482-CCV1

Dichlorodifluoromethane (Freon 12)
B391462-BS1, B391462-BSD1, S113482-CCV1

SW-846 8270E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Heptane, 2,3-dimethyl-
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391425-BLK1

Octane, 3-methyl-
24J4506-02[CLMW-06-Z36-37], 24J4506-06[CLMW-03-Z21-22], B391425-BLK1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1

Hexachlorocyclopentadiene
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391425-BLK1, B391425-BS1, B391425-BSD1

Hexachloroethane
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1

Pyridine
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391425-BLK1, B391425-BS1, B391425-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B391397-BS1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B391397-BS1, B391397-BSD1

2,4-Dinitrophenol
B391397-BSD1

Benzaldehyde
B391425-BS1, B391425-BSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
B391397-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, S113601-CCV1

Dibenz(a,h)anthracene
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, S113601-CCV1

Di-n-octylphthalate
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, S113601-CCV1

Indeno(1,2,3-cd)pyrene
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, S113601-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], 24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, B391425-BLK1, B391425-BS1, B391425-BSD1, S113405-CCV1, S113601-CCV1

Aniline
24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, S113601-CCV1

Hexachlorocyclopentadiene
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391425-BLK1, B391425-BS1, B391425-BSD1, S 113405-CCV1

Pentachlorophenol
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], B391425-BLK1, B391425-BS1, B391425-BSD1, S 113405-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Caprolactam
S113405-CCV2

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine
24J4506-01[CLMW-06-Z25-26], 24J4506-02[CLMW-06-Z36-37], 24J4506-03[CLMW-06-Z42-43], 24J4506-04[CLMW-06-Z48-49], 24J4506-05[CLMW-03-Z12-13], 24J4506-06[CLMW-03-Z21-22], 24J4506-07[CLMW-03-Z35-36], 24J4506-08[CLMW-03-Z42-43], 24J4506-09[FB-241030], B391397-BLK1, B391397-BS1, B391397-BSD1, B391425-BLK1, B391425-BS1, B391425-BSD1, S108638-ICV1, S113334-ICV1, S113405-CCV1, S113601-CCV1

SW-846 9014

Qualifications:

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L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Cyanide

B391415-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.090	0.047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00090	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Benzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Bromochloromethane	ND	0.0018	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Bromodichloromethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Bromoform	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Bromomethane	ND	0.0090	0.0016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
2-Butanone (MEK)	0.012	0.036	0.0076	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Butyl Alcohol (TBA)	ND	0.090	0.037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
n-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
sec-Butylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00090	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Carbon Disulfide	ND	0.018	0.0091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Carbon Tetrachloride	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Chlorobenzene	ND	0.0018	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Chlorodibromomethane	ND	0.00090	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Chloroform	ND	0.0036	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Chloromethane	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Cyclohexane	ND	0.0090	0.0037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2-Dibromoethane (EDB)	ND	0.00090	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1-Dichloroethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2-Dichloroethane	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1-Dichloroethylene	ND	0.0036	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2-Dichloropropane	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
cis-1,3-Dichloropropene	ND	0.00090	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
trans-1,3-Dichloropropene	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Diisopropyl Ether (DIPE)	ND	0.00090	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Ethanol	ND	0.18	0.036	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Ethylbenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
2-Hexanone (MBK)	ND	0.018	0.0062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Methyl Cyclohexane	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Methylene Chloride	ND	0.018	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Naphthalene	ND	0.0036	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
n-Propylbenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Styrene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Tetrachloroethylene	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Toluene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Trichloroethylene	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0090	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Vinyl Chloride	ND	0.0090	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
m+p Xylene	ND	0.0036	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
o-Xylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.2	70-130		11/5/24 11:47
Toluene-d8	99.4	70-130		11/5/24 11:47
4-Bromofluorobenzene	98.2	70-130		11/5/24 11:47

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Octanone	0.0067	mg/Kg dry	149533	10.869	1	000111-13-7	94	SW-846 8260D	11/5/24	11/5/24 11:47	MFF
Heptanal	0.0048	mg/Kg dry	94891	9.556	1	000111-71-7	83	SW-846 8260D	11/5/24	11/5/24 11:47	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.69	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Atrazine	ND	0.69	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzaldehyde	ND	0.35	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Biphenyl	ND	0.69	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Caprolactam	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Acenaphthene	ND	0.17	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Acenaphthylene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Acetophenone	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Aniline	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Anthracene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzo(a)anthracene	ND	0.17	0.028	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzo(a)pyrene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzo(b)fluoranthene	ND	0.17	0.028	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzo(g,h,i)perylene	ND	0.17	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Benzo(k)fluoranthene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Bis(2-chloroethoxy)methane	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Bis(2-chloroethyl)ether	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.35	0.22	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Bromophenylphenylether	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Butylbenzylphthalate	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Carbazole	ND	0.17	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Chloroaniline	ND	0.68	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Chloro-3-methylphenol	ND	0.68	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Chloronaphthalene	ND	0.35	0.030	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Chlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Chlorophenylphenylether	ND	0.35	0.029	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Chrysene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Dibenz(a,h)anthracene	ND	0.17	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Dibenzofuran	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Di-n-butylphthalate	ND	0.35	0.13	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
3,3-Dichlorobenzidine	ND	0.17	0.075	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4-Dichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Diethylphthalate	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4-Dimethylphenol	ND	0.35	0.080	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Dimethylphthalate	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4,6-Dinitro-2-methylphenol	ND	0.35	0.27	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4-Dinitrophenol	ND	0.68	0.27	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4-Dinitrotoluene	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,6-Dinitrotoluene	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Di-n-octylphthalate	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Fluoranthene	ND	0.17	0.029	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Fluorene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Hexachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1	V-05, L-04	SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Hexachloroethane	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Indeno(1,2,3-cd)pyrene	ND	0.17	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Isophorone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
1-Methylnaphthalene	ND	0.17	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Methylnaphthalene	ND	0.17	0.030	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Methylphenol	ND	0.35	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
3/4-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Naphthalene	ND	0.17	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Nitroaniline	ND	0.35	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
3-Nitroaniline	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Nitroaniline	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Nitrobenzene	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2-Nitrophenol	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
4-Nitrophenol	ND	0.68	0.093	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
N-Nitrosodi-n-propylamine	ND	0.35	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Pentachlorophenol	ND	0.35	0.13	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Phenanthrene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Phenol	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Pyrene	ND	0.17	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Pyridine	ND	0.35	0.041	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 14:49	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4,5-Trichlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC
2,4,6-Trichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:49	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	66.8	30-130		11/6/24 14:49
Phenol-d6	70.4	30-130		11/6/24 14:49
Nitrobenzene-d5	61.4	30-130		11/6/24 14:49
2-Fluorobiphenyl	66.0	30-130		11/6/24 14:49
2,4,6-Tribromophenol	69.5	30-130		11/6/24 14:49
p-Terphenyl-d14	71.7	30-130		11/6/24 14:49

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 7:04	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	42.3	15-110		11/15/24 7:04	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.77	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorooctanoic acid (PFOA)	0.23	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.072	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.065	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.048	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.77	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.77	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.77	0.36	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.62	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.77	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.77	0.31	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
9Cl-PF3ONS (F53B Minor)	ND	0.77	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
11Cl-PF3OUdS (F53B Major)	ND	0.77	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.47	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:31	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	75.9	8-130		12/4/24 4:31
13C5-PFPeA	83.1	35-130		12/4/24 4:31
13C5-PFHxA	83.0	40-130		12/4/24 4:31
13C4-PFHpA	82.1	40-130		12/4/24 4:31
13C8-PFOA	77.8	40-130		12/4/24 4:31
13C9-PFNA	78.5	40-130		12/4/24 4:31
13C6-PFDA	82.9	40-130		12/4/24 4:31
13C7-PFUnA	84.9	40-130		12/4/24 4:31
13C2-PFDoA	79.0	40-130		12/4/24 4:31
13C2-PFTeDA	74.9	20-130		12/4/24 4:31
13C3-PFBS	82.5	40-135		12/4/24 4:31
13C3-PFHxS	80.2	40-130		12/4/24 4:31
13C8-PFOS	77.4	40-130		12/4/24 4:31
13C2-4:2FTS	69.7	40-165		12/4/24 4:31
13C2-6:2FTS	73.4	40-215		12/4/24 4:31
13C2-8:2FTS	85.5	40-275		12/4/24 4:31
13C8-PFOSA	64.2	40-130		12/4/24 4:31
D3-NMeFOSA	63.8	10-130		12/4/24 4:31
D5-NEtFOSA	65.2	10-130		12/4/24 4:31
D3-NMeFOSAA	57.8	40-135		12/4/24 4:31
D5-NEtFOSAA	56.0	40-150		12/4/24 4:31
D7-NMeFOSE	65.9	20-130		12/4/24 4:31
D9-NEtFOSE	65.5	15-130		12/4/24 4:31
13C3-HFPO-DA	87.1	40-130		12/4/24 4:31

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.38	mg/Kg dry	204244	2.509	1	003074-71-3	91	SW-846 8270E	11/5/24	11/6/24 14:49	KMC
Heptane, 2,5-dimethyl-	0.46	mg/Kg dry	250772	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 14:49	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0047	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
gamma-Chlordane [1]	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Aldrin [1]	ND	0.0047	0.00046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
alpha-BHC [1]	ND	0.0047	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
beta-BHC [1]	ND	0.0047	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
delta-BHC [1]	ND	0.0047	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
gamma-BHC (Lindane) [1]	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
4,4'-DDD [1]	ND	0.0038	0.00080	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
4,4'-DDE [1]	ND	0.0038	0.00042	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
4,4'-DDT [1]	ND	0.0038	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Dieldrin [1]	ND	0.0038	0.00045	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endosulfan I [1]	ND	0.0047	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endosulfan II [1]	ND	0.0075	0.0020	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endosulfan sulfate [1]	ND	0.0075	0.0018	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endrin [1]	ND	0.0075	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endrin aldehyde [1]	ND	0.0075	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Endrin ketone [1]	ND	0.0075	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Heptachlor [1]	ND	0.0047	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Heptachlor epoxide [1]	ND	0.0047	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Methoxychlor [1]	ND	0.047	0.0056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG
Toxaphene [1]	ND	0.094	0.039	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.4	30-150		11/20/24 23:22
Decachlorobiphenyl [2]	86.7	30-150		11/20/24 23:22
Tetrachloro-m-xylene [1]	65.2	30-150		11/20/24 23:22
Tetrachloro-m-xylene [2]	68.0	30-150		11/20/24 23:22

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1221 [1]	ND	0.077	0.036	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1232 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1242 [1]	ND	0.077	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1248 [1]	ND	0.077	0.018	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1254 [1]	ND	0.077	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1260 [1]	ND	0.077	0.016	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1262 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG
Aroclor-1268 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.6	30-150		11/15/24 0:10
Decachlorobiphenyl [2]	70.2	30-150		11/15/24 0:10
Tetrachloro-m-xylene [1]	86.6	30-150		11/15/24 0:10
Tetrachloro-m-xylene [2]	83.6	30-150		11/15/24 0:10

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2700	16	5.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Antimony	ND	1.6	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Arsenic	2.7	3.3	0.46	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Barium	25	1.6	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Beryllium	0.20	0.16	0.050	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Cadmium	ND	0.33	0.16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Calcium	6700	16	8.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Chromium	6.4	0.65	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Cobalt	2.7	1.6	0.28	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Copper	8.7	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Iron	6800	16	7.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Lead	3.5	0.49	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Magnesium	3100	16	3.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Manganese	220	0.33	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Mercury	ND	0.026	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 22:56	MJH
Nickel	9.5	0.65	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Potassium	450	160	40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:13	HNN
Selenium	ND	3.3	0.81	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Silver	ND	0.33	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:13	HNN
Sodium	97	160	49	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Thallium	ND	1.6	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Vanadium	11	0.65	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN
Zinc	16	0.65	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:25	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z25-26 | Sampled: 10/29/2024 10:30

Sample ID: 24J4506-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.9			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.50	0.38	mg/Kg dry	1		SW-846 9014	11/5/24	11/6/24 12:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Amyl Alcohol (TAA)	ND	0.019	0.0041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00096	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Benzene	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Bromochloromethane	ND	0.0019	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Bromodichloromethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Bromoform	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Bromomethane	ND	0.0096	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
2-Butanone (MEK)	ND	0.038	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Butyl Alcohol (TBA)	ND	0.096	0.039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
n-Butylbenzene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
sec-Butylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Butylbenzene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00096	0.00083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Carbon Disulfide	ND	0.019	0.0096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Carbon Tetrachloride	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Chlorobenzene	ND	0.0019	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Chlorodibromomethane	ND	0.00096	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Chloroethane	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Chloroform	ND	0.0038	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Chloromethane	ND	0.0096	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Cyclohexane	ND	0.0096	0.0039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0038	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1-Dichloroethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1-Dichloroethylene	ND	0.0038	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2-Dichloropropane	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Diisopropyl Ether (DIPE)	ND	0.00096	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Ethanol	ND	0.19	0.038	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Ethylbenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
2-Hexanone (MBK)	ND	0.019	0.0066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Methyl Acetate	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Methyl Cyclohexane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Methylene Chloride	ND	0.019	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Naphthalene	ND	0.0038	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
n-Propylbenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Styrene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Tetrachloroethylene	ND	0.0019	0.00083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Toluene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Trichloroethylene	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Vinyl Chloride	ND	0.0096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
m+p Xylene	ND	0.0038	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
o-Xylene	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF
Xylenes (total)	ND	0.0019	0.0019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.8	70-130		11/5/24 12:12
Toluene-d8	99.6	70-130		11/5/24 12:12
4-Bromofluorobenzene	99.1	70-130		11/5/24 12:12

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 12:12	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.69	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Atrazine	ND	0.69	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzaldehyde	ND	0.35	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Biphenyl	ND	0.69	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Caprolactam	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Acenaphthene	ND	0.18	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Acenaphthylene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Acetophenone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Aniline	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Anthracene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzo(a)anthracene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzo(a)pyrene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzo(b)fluoranthene	ND	0.18	0.028	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzo(g,h,i)perylene	ND	0.18	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Benzo(k)fluoranthene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Bis(2-chloroethoxy)methane	ND	0.35	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Bis(2-chloroethyl)ether	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.35	0.22	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Bromophenylphenylether	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Butylbenzylphthalate	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Carbazole	ND	0.18	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Chloroaniline	ND	0.68	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Chloro-3-methylphenol	ND	0.68	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Chloronaphthalene	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Chlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Chlorophenylphenylether	ND	0.35	0.029	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Chrysene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Dibenz(a,h)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Dibenzofuran	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Di-n-butylphthalate	ND	0.35	0.13	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
3,3-Dichlorobenzidine	ND	0.18	0.076	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4-Dichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Diethylphthalate	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4-Dimethylphenol	ND	0.35	0.081	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Dimethylphthalate	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4,6-Dinitro-2-methylphenol	ND	0.35	0.28	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4-Dinitrophenol	ND	0.68	0.27	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4-Dinitrotoluene	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,6-Dinitrotoluene	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Di-n-octylphthalate	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Fluoranthene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Fluorene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Hexachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Hexachloroethane	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Indeno(1,2,3-cd)pyrene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Isophorone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
1-Methylnaphthalene	ND	0.18	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Methylnaphthalene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Methylphenol	ND	0.35	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
3/4-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Naphthalene	ND	0.18	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Nitroaniline	ND	0.35	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
3-Nitroaniline	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Nitroaniline	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Nitrobenzene	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2-Nitrophenol	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
4-Nitrophenol	ND	0.68	0.094	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
N-Nitrosodi-n-propylamine	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Pentachlorophenol	ND	0.35	0.13	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Phenanthrene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Phenol	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Pyrene	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Pyridine	ND	0.35	0.041	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 15:09	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4,5-Trichlorophenol	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC
2,4,6-Trichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:09	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	65.2	30-130		11/6/24 15:09
Phenol-d6	69.5	30-130		11/6/24 15:09
Nitrobenzene-d5	60.4	30-130		11/6/24 15:09
2-Fluorobiphenyl	66.1	30-130		11/6/24 15:09
2,4,6-Tribromophenol	69.1	30-130		11/6/24 15:09
p-Terphenyl-d14	71.7	30-130		11/6/24 15:09

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 7:24	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	45.6	15-110		11/15/24 7:24	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorooctanesulfonic acid (PFOS)	0.12	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:40	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.9	8-130		12/4/24 4:40
13C5-PFPeA	90.2	35-130		12/4/24 4:40
13C5-PFHxA	88.0	40-130		12/4/24 4:40
13C4-PFHpA	88.5	40-130		12/4/24 4:40
13C8-PFOA	86.6	40-130		12/4/24 4:40
13C9-PFNA	85.0	40-130		12/4/24 4:40
13C6-PFDA	91.1	40-130		12/4/24 4:40
13C7-PFUnA	96.0	40-130		12/4/24 4:40
13C2-PFDoA	89.8	40-130		12/4/24 4:40
13C2-PFTeDA	82.2	20-130		12/4/24 4:40
13C3-PFBS	86.6	40-135		12/4/24 4:40
13C3-PFHxS	86.5	40-130		12/4/24 4:40
13C8-PFOS	83.7	40-130		12/4/24 4:40
13C2-4:2FTS	98.8	40-165		12/4/24 4:40
13C2-6:2FTS	89.0	40-215		12/4/24 4:40
13C2-8:2FTS	94.0	40-275		12/4/24 4:40
13C8-PFOSA	73.7	40-130		12/4/24 4:40
D3-NMeFOSA	79.1	10-130		12/4/24 4:40
D5-NEtFOSA	76.7	10-130		12/4/24 4:40
D3-NMeFOSAA	81.3	40-135		12/4/24 4:40
D5-NEtFOSAA	82.6	40-150		12/4/24 4:40
D7-NMeFOSE	78.4	20-130		12/4/24 4:40
D9-NEtFOSE	75.7	15-130		12/4/24 4:40
13C3-HFPO-DA	91.4	40-130		12/4/24 4:40

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.39	mg/Kg dry	226517	2.509	1	003074-71-3	90	SW-846 8270E	11/5/24	11/6/24 15:09	KMC
Octane, 3-methyl-	0.48	mg/Kg dry	273055	2.406	1	002216-33-3	91	SW-846 8270E	11/5/24	11/6/24 15:09	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0049	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
gamma-Chlordane [1]	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Aldrin [1]	ND	0.0049	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
alpha-BHC [1]	ND	0.0049	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
beta-BHC [1]	ND	0.0049	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
delta-BHC [1]	ND	0.0049	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
gamma-BHC (Lindane) [1]	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
4,4'-DDD [1]	ND	0.0039	0.00083	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
4,4'-DDE [1]	ND	0.0039	0.00043	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
4,4'-DDT [1]	ND	0.0039	0.00050	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Dieldrin [1]	ND	0.0039	0.00046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endosulfan I [1]	ND	0.0049	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endosulfan II [1]	ND	0.0078	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endosulfan sulfate [1]	ND	0.0078	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endrin [1]	ND	0.0078	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endrin aldehyde [1]	ND	0.0078	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Endrin ketone [1]	ND	0.0078	0.0020	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Heptachlor [1]	ND	0.0049	0.00054	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Heptachlor epoxide [1]	ND	0.0049	0.00057	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Methoxychlor [1]	ND	0.049	0.0058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG
Toxaphene [1]	ND	0.098	0.041	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.3	30-150		11/20/24 23:34
Decachlorobiphenyl [2]	96.1	30-150		11/20/24 23:34
Tetrachloro-m-xylene [1]	76.6	30-150		11/20/24 23:34
Tetrachloro-m-xylene [2]	79.4	30-150		11/20/24 23:34

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1221 [1]	ND	0.077	0.036	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1232 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1242 [1]	ND	0.077	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1248 [1]	ND	0.077	0.018	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1254 [1]	ND	0.077	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1260 [1]	ND	0.077	0.016	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1262 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG
Aroclor-1268 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.2	30-150		11/15/24 0:28
Decachlorobiphenyl [2]	68.9	30-150		11/15/24 0:28
Tetrachloro-m-xylene [1]	85.8	30-150		11/15/24 0:28
Tetrachloro-m-xylene [2]	83.1	30-150		11/15/24 0:28

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3000	16	5.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Antimony	ND	1.6	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Arsenic	2.3	3.3	0.46	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Barium	26	1.6	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Beryllium	0.20	0.16	0.050	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Cadmium	ND	0.33	0.16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Calcium	5100	16	8.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Chromium	5.3	0.66	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Cobalt	2.7	1.6	0.28	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Copper	7.4	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Iron	6100	16	7.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Lead	3.6	0.49	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Magnesium	2100	16	3.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Manganese	190	0.33	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 22:57	MJH
Nickel	6.8	0.66	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Potassium	590	160	40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:21	HNN
Selenium	ND	3.3	0.81	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Silver	ND	0.33	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:21	HNN
Sodium	110	160	49	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Thallium	ND	1.6	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Vanadium	8.9	0.66	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN
Zinc	15	0.66	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:33	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z36-37 | Sampled: 10/29/2024 11:00

Sample ID: 24J4506-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.49	0.37	mg/Kg dry	1		SW-846 9014	11/5/24	11/6/24 12:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Benzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Bromochloromethane	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Bromodichloromethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Bromoform	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
2-Butanone (MEK)	ND	0.040	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
n-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
sec-Butylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Carbon Tetrachloride	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Chlorobenzene	ND	0.0020	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Chlorodibromomethane	ND	0.0010	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Chloroform	ND	0.0040	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1-Dichloroethylene	ND	0.0040	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2-Dichloropropane	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Ethylbenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
2-Hexanone (MBK)	ND	0.020	0.0069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Methyl Cyclohexane	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Methylene Chloride	ND	0.020	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Naphthalene	ND	0.0040	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
n-Propylbenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Styrene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Tetrachloroethylene	0.0023	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Toluene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Trichloroethylene	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Vinyl Chloride	ND	0.010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
m+p Xylene	ND	0.0040	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 12:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.8	70-130		11/5/24 12:38
Toluene-d8	100	70-130		11/5/24 12:38
4-Bromofluorobenzene	99.5	70-130		11/5/24 12:38

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 12:38	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Atrazine	ND	0.80	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzaldehyde	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Biphenyl	ND	0.80	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Caprolactam	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Acenaphthene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Acenaphthylene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Acetophenone	ND	0.40	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Aniline	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Anthracene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzo(a)anthracene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzo(a)pyrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzo(b)fluoranthene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzo(g,h,i)perylene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Benzo(k)fluoranthene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Bis(2-chloroethoxy)methane	ND	0.40	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Bis(2-chloroethyl)ether	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Bromophenylphenylether	ND	0.40	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Butylbenzylphthalate	ND	0.40	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Carbazole	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Chloroaniline	ND	0.78	0.071	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Chloro-3-methylphenol	ND	0.78	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Chloronaphthalene	ND	0.40	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Chlorophenol	ND	0.40	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Chlorophenylphenylether	ND	0.40	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Chrysene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Dibenz(a,h)anthracene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Dibenzofuran	ND	0.40	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Di-n-butylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
3,3-Dichlorobenzidine	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4-Dichlorophenol	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Diethylphthalate	ND	0.40	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4-Dimethylphenol	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Dimethylphthalate	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4,6-Dinitro-2-methylphenol	ND	0.40	0.32	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4-Dinitrophenol	ND	0.78	0.31	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4-Dinitrotoluene	ND	0.40	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,6-Dinitrotoluene	ND	0.40	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Di-n-octylphthalate	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Fluoranthene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Fluorene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Hexachlorobenzene	ND	0.40	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.40	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Hexachloroethane	ND	0.40	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Isophorone	ND	0.40	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
1-Methylnaphthalene	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Methylnaphthalene	ND	0.20	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Methylphenol	ND	0.40	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
3/4-Methylphenol	ND	0.40	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Naphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Nitroaniline	ND	0.40	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
3-Nitroaniline	ND	0.40	0.084	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Nitroaniline	ND	0.40	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Nitrobenzene	ND	0.40	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2-Nitrophenol	ND	0.40	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
4-Nitrophenol	ND	0.78	0.11	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.40	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
N-Nitrosodi-n-propylamine	ND	0.40	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Pentachlorophenol	ND	0.40	0.15	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Phenanthrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Phenol	ND	0.40	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Pyrene	ND	0.20	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Pyridine	ND	0.40	0.047	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 15:30	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4,5-Trichlorophenol	ND	0.40	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC
2,4,6-Trichlorophenol	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 15:30	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	62.2	30-130		11/6/24 15:30
Phenol-d6	65.6	30-130		11/6/24 15:30
Nitrobenzene-d5	56.9	30-130		11/6/24 15:30
2-Fluorobiphenyl	65.3	30-130		11/6/24 15:30
2,4,6-Tribromophenol	62.9	30-130		11/6/24 15:30
p-Terphenyl-d14	73.6	30-130		11/6/24 15:30

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.059	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 7:43	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	40.2	15-110					11/15/24 7:43	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.13	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.083	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.058	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.30	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:49	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.9	8-130		12/4/24 4:49
13C5-PFPeA	93.2	35-130		12/4/24 4:49
13C5-PFHxA	90.9	40-130		12/4/24 4:49
13C4-PFHpA	89.8	40-130		12/4/24 4:49
13C8-PFOA	90.5	40-130		12/4/24 4:49
13C9-PFNA	91.0	40-130		12/4/24 4:49
13C6-PFDA	93.2	40-130		12/4/24 4:49
13C7-PFUnA	94.4	40-130		12/4/24 4:49
13C2-PFDoA	97.7	40-130		12/4/24 4:49
13C2-PFTeDA	86.4	20-130		12/4/24 4:49
13C3-PFBS	92.2	40-135		12/4/24 4:49
13C3-PFHxS	88.2	40-130		12/4/24 4:49
13C8-PFOS	86.6	40-130		12/4/24 4:49
13C2-4:2FTS	94.3	40-165		12/4/24 4:49
13C2-6:2FTS	97.1	40-215		12/4/24 4:49
13C2-8:2FTS	96.9	40-275		12/4/24 4:49
13C8-PFOSA	81.4	40-130		12/4/24 4:49
D3-NMeFOSA	80.4	10-130		12/4/24 4:49
D5-NEtFOSA	85.0	10-130		12/4/24 4:49
D3-NMeFOSAA	85.6	40-135		12/4/24 4:49
D5-NEtFOSAA	84.1	40-150		12/4/24 4:49
D7-NMeFOSE	81.4	20-130		12/4/24 4:49
D9-NEtFOSE	78.2	15-130		12/4/24 4:49
13C3-HFPO-DA	97.5	40-130		12/4/24 4:49

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.37	mg/Kg dry	187537	2.509	1	003074-71-3	91	SW-846 8270E	11/5/24	11/6/24 15:30	KMC
Heptane, 2,5-dimethyl-	0.45	mg/Kg dry	227896	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 15:30	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
gamma-Chlordane [1]	ND	0.0056	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Aldrin [1]	ND	0.0056	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
alpha-BHC [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
beta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
delta-BHC [1]	ND	0.0056	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
4,4'-DDD [1]	ND	0.0045	0.00095	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
4,4'-DDE [1]	ND	0.0045	0.00049	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
4,4'-DDT [1]	ND	0.0045	0.00057	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Dieldrin [1]	ND	0.0045	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endosulfan I [1]	ND	0.0056	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endosulfan II [1]	ND	0.0089	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endosulfan sulfate [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endrin [1]	ND	0.0089	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endrin aldehyde [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Endrin ketone [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Heptachlor [1]	ND	0.0056	0.00061	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Heptachlor epoxide [1]	ND	0.0056	0.00065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Methoxychlor [1]	ND	0.056	0.0066	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		11/20/24 23:46
Decachlorobiphenyl [2]	102	30-150		11/20/24 23:46
Tetrachloro-m-xylene [1]	81.9	30-150		11/20/24 23:46
Tetrachloro-m-xylene [2]	85.5	30-150		11/20/24 23:46

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1221 [1]	ND	0.092	0.043	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1232 [1]	ND	0.092	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1242 [1]	ND	0.092	0.025	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1248 [1]	ND	0.092	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1254 [1]	ND	0.092	0.027	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1260 [1]	ND	0.092	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1262 [1]	ND	0.092	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG
Aroclor-1268 [1]	ND	0.092	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 0:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.4	30-150		11/15/24 0:45
Decachlorobiphenyl [2]	74.6	30-150		11/15/24 0:45
Tetrachloro-m-xylene [1]	96.5	30-150		11/15/24 0:45
Tetrachloro-m-xylene [2]	93.9	30-150		11/15/24 0:45

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2600	19	6.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Arsenic	2.0	3.8	0.54	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Barium	21	1.9	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Beryllium	0.19	0.19	0.058	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Cadmium	ND	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Calcium	4600	19	9.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Chromium	4.8	0.76	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Cobalt	2.5	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Copper	7.8	1.5	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Iron	5800	19	8.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Lead	3.3	0.57	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Magnesium	2200	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Manganese	190	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Mercury	ND	0.030	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 22:59	MJH
Nickel	5.9	0.76	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Potassium	450	190	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:41	HNN
Selenium	ND	3.8	0.95	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:41	HNN
Sodium	120	190	57	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Vanadium	6.8	0.76	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN
Zinc	14	0.76	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:41	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z42-43 | Sampled: 10/29/2024 11:10

Sample ID: 24J4506-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Amyl Alcohol (TAA)	ND	0.019	0.0041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00096	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Benzene	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Bromochloromethane	ND	0.0019	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Bromodichloromethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Bromoform	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Bromomethane	ND	0.0096	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
2-Butanone (MEK)	ND	0.038	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Butyl Alcohol (TBA)	ND	0.096	0.039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
n-Butylbenzene	ND	0.0019	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
sec-Butylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Butylbenzene	ND	0.0019	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00096	0.00083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Carbon Disulfide	ND	0.019	0.0096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Carbon Tetrachloride	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Chlorobenzene	ND	0.0019	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Chlorodibromomethane	ND	0.00096	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Chloroethane	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Chloroform	ND	0.0038	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Chloromethane	ND	0.0096	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Cyclohexane	ND	0.0096	0.0039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0038	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1-Dichloroethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1-Dichloroethylene	ND	0.0038	0.00091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2-Dichloropropane	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Diisopropyl Ether (DIPE)	ND	0.00096	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Ethanol	ND	0.19	0.038	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Ethylbenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
2-Hexanone (MBK)	ND	0.019	0.0066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Methyl Acetate	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Methyl Cyclohexane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Methylene Chloride	ND	0.019	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Naphthalene	ND	0.0038	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
n-Propylbenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Styrene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Tetrachloroethylene	0.0034	0.0019	0.00083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Toluene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Trichloroethylene	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Vinyl Chloride	ND	0.0096	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
m+p Xylene	ND	0.0038	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
o-Xylene	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF
Xylenes (total)	ND	0.0019	0.0019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.5	70-130		11/5/24 13:03
Toluene-d8	101	70-130		11/5/24 13:03
4-Bromofluorobenzene	99.7	70-130		11/5/24 13:03

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 13:03	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzo(g,h,i)perylene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Butylbenzylphthalate	ND	0.38	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Chloroaniline	ND	0.74	0.068	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Chlorophenylphenylether	ND	0.38	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Dibenz(a,h)anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Di-n-butylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
3,3-Dichlorobenzidine	ND	0.19	0.083	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4-Dinitrotoluene	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Isophorone	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Nitroaniline	ND	0.38	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Pyridine	ND	0.38	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 13:08	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:08	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	67.5	30-130		11/6/24 13:08
Phenol-d6	71.6	30-130		11/6/24 13:08
Nitrobenzene-d5	61.2	30-130		11/6/24 13:08
2-Fluorobiphenyl	69.0	30-130		11/6/24 13:08
2,4,6-Tribromophenol	74.5	30-130		11/6/24 13:08
p-Terphenyl-d14	76.3	30-130		11/6/24 13:08

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 8:03	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	42.8	15-110		11/15/24 8:03	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.049	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.090	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 4:58	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	68.2	8-130		12/4/24 4:58
13C5-PFPeA	76.6	35-130		12/4/24 4:58
13C5-PFHxA	71.8	40-130		12/4/24 4:58
13C4-PFHpA	72.3	40-130		12/4/24 4:58
13C8-PFOA	69.6	40-130		12/4/24 4:58
13C9-PFNA	67.0	40-130		12/4/24 4:58
13C6-PFDA	70.3	40-130		12/4/24 4:58
13C7-PFUnA	71.0	40-130		12/4/24 4:58
13C2-PFDoA	68.4	40-130		12/4/24 4:58
13C2-PFTeDA	66.3	20-130		12/4/24 4:58
13C3-PFBS	72.7	40-135		12/4/24 4:58
13C3-PFHxS	70.3	40-130		12/4/24 4:58
13C8-PFOS	70.7	40-130		12/4/24 4:58
13C2-4:2FTS	77.5	40-165		12/4/24 4:58
13C2-6:2FTS	78.7	40-215		12/4/24 4:58
13C2-8:2FTS	78.1	40-275		12/4/24 4:58
13C8-PFOSA	61.1	40-130		12/4/24 4:58
D3-NMeFOSA	62.9	10-130		12/4/24 4:58
D5-NEtFOSA	62.9	10-130		12/4/24 4:58
D3-NMeFOSAA	56.5	40-135		12/4/24 4:58
D5-NEtFOSAA	52.9	40-150		12/4/24 4:58
D7-NMeFOSE	64.2	20-130		12/4/24 4:58
D9-NEtFOSE	62.7	15-130		12/4/24 4:58
13C3-HFPO-DA	79.6	40-130		12/4/24 4:58

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.41	mg/Kg dry	194040	2.509	1	003074-71-3	91	SW-846 8270E	11/5/24	11/6/24 13:08	KMC
Heptane, 2,5-dimethyl-	0.51	mg/Kg dry	239332	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 13:08	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
gamma-Chlordane [1]	ND	0.0054	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Aldrin [1]	ND	0.0054	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
alpha-BHC [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
beta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
delta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
4,4'-DDD [1]	ND	0.0043	0.00092	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
4,4'-DDE [1]	ND	0.0043	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
4,4'-DDT [1]	ND	0.0043	0.00056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Dieldrin [1]	ND	0.0043	0.00051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endosulfan I [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endosulfan II [1]	ND	0.0086	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endosulfan sulfate [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endrin [1]	ND	0.0086	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endrin aldehyde [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Endrin ketone [1]	ND	0.0086	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Heptachlor [1]	ND	0.0054	0.00059	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Heptachlor epoxide [1]	ND	0.0054	0.00063	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Methoxychlor [1]	ND	0.054	0.0064	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG
Toxaphene [1]	ND	0.11	0.045	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 23:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		11/20/24 23:58
Decachlorobiphenyl [2]	106	30-150		11/20/24 23:58
Tetrachloro-m-xylene [1]	84.3	30-150		11/20/24 23:58
Tetrachloro-m-xylene [2]	83.7	30-150		11/20/24 23:58

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1221 [1]	ND	0.086	0.040	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1232 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1242 [1]	ND	0.086	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1248 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1254 [1]	ND	0.086	0.026	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1260 [1]	ND	0.086	0.018	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1262 [1]	ND	0.086	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG
Aroclor-1268 [1]	ND	0.086	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		11/15/24 1:03
Decachlorobiphenyl [2]	74.2	30-150		11/15/24 1:03
Tetrachloro-m-xylene [1]	95.8	30-150		11/15/24 1:03
Tetrachloro-m-xylene [2]	93.1	30-150		11/15/24 1:03

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2500	18	5.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Antimony	ND	1.8	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Arsenic	1.8	3.7	0.52	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Barium	24	1.8	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Beryllium	0.18	0.18	0.056	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Cadmium	ND	0.37	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Calcium	730	18	9.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Chromium	5.8	0.74	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Cobalt	2.5	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Copper	7.3	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Iron	5400	18	8.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Lead	3.2	0.55	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Magnesium	1400	18	4.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Manganese	200	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Mercury	ND	0.028	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:06	MJH
Nickel	5.7	0.74	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Potassium	480	180	46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:49	HNN
Selenium	ND	3.7	0.91	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:49	HNN
Sodium	130	180	55	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Thallium	ND	1.8	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Vanadium	6.2	0.74	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN
Zinc	13	0.74	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:49	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-06-Z48-49 | Sampled: 10/29/2024 11:20

Sample ID: 24J4506-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.54	0.41	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	0.043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00083	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Benzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Bromochloromethane	ND	0.0017	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Bromodichloromethane	ND	0.0017	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Bromoform	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Bromomethane	ND	0.0083	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
2-Butanone (MEK)	ND	0.033	0.0070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Butyl Alcohol (TBA)	ND	0.083	0.034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
n-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
sec-Butylbenzene	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00083	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Carbon Disulfide	ND	0.017	0.0083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Carbon Tetrachloride	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Chlorobenzene	ND	0.0017	0.00040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Chlorodibromomethane	ND	0.00083	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Chloromethane	ND	0.0083	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Cyclohexane	ND	0.0083	0.0034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1-Dichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2-Dichloroethane	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1-Dichloroethylene	ND	0.0033	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2-Dichloropropane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
cis-1,3-Dichloropropene	ND	0.00083	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
trans-1,3-Dichloropropene	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Diisopropyl Ether (DIPE)	ND	0.00083	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Ethanol	ND	0.17	0.033	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Ethylbenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
2-Hexanone (MBK)	ND	0.017	0.0057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Methyl Cyclohexane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Methylene Chloride	ND	0.017	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Naphthalene	ND	0.0033	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
n-Propylbenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Styrene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Tetrachloroethylene	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Toluene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Trichloroethylene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0083	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Vinyl Chloride	ND	0.0083	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
o-Xylene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.8	70-130		11/5/24 13:29
Toluene-d8	102	70-130		11/5/24 13:29
4-Bromofluorobenzene	97.4	70-130		11/5/24 13:29

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 13:29	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Atrazine	ND	0.76	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Biphenyl	ND	0.76	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Aniline	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzo(g,h,i)perylene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Butylbenzylphthalate	ND	0.38	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Chloroaniline	ND	0.75	0.068	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Chloro-3-methylphenol	ND	0.75	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Chloronaphthalene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Chlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Chlorophenylphenylether	ND	0.38	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Dibenz(a,h)anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Di-n-butylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
3,3-Dichlorobenzidine	ND	0.19	0.083	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4-Dimethylphenol	ND	0.38	0.089	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4-Dinitrophenol	ND	0.75	0.30	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4-Dinitrotoluene	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Isophorone	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
3/4-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Nitroaniline	ND	0.38	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
3-Nitroaniline	ND	0.38	0.080	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Nitroaniline	ND	0.38	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
4-Nitrophenol	ND	0.75	0.10	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Phenol	ND	0.38	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Pyridine	ND	0.38	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 13:28	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:28	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	67.3	30-130		11/6/24 13:28
Phenol-d6	71.5	30-130		11/6/24 13:28
Nitrobenzene-d5	62.5	30-130		11/6/24 13:28
2-Fluorobiphenyl	69.8	30-130		11/6/24 13:28
2,4,6-Tribromophenol	73.0	30-130		11/6/24 13:28
p-Terphenyl-d14	73.4	30-130		11/6/24 13:28

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 8:23	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	46.5	15-110		11/15/24 8:23	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.049	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.090	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:08	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	98.1	8-130		12/4/24 5:08
13C5-PFPeA	106	35-130		12/4/24 5:08
13C5-PFHxA	105	40-130		12/4/24 5:08
13C4-PFHpA	103	40-130		12/4/24 5:08
13C8-PFOA	104	40-130	Z-01a	12/4/24 5:08
13C9-PFNA	115	40-130	Z-01a	12/4/24 5:08
13C6-PFDA	109	40-130	Z-01a	12/4/24 5:08
13C7-PFUnA	114	40-130	Z-01a	12/4/24 5:08
13C2-PFDoA	118	40-130	Z-01a	12/4/24 5:08
13C2-PFTeDA	103	20-130	Z-01	12/4/24 5:08
13C3-PFBS	101	40-135		12/4/24 5:08
13C3-PFHxS	104	40-130		12/4/24 5:08
13C8-PFOS	106	40-130		12/4/24 5:08
13C2-4:2FTS	105	40-165		12/4/24 5:08
13C2-6:2FTS	98.7	40-215		12/4/24 5:08
13C2-8:2FTS	114	40-275		12/4/24 5:08
13C8-PFOSA	87.3	40-130		12/4/24 5:08
D3-NMeFOSA	80.2	10-130		12/4/24 5:08
D5-NEtFOSA	84.6	10-130		12/4/24 5:08
D3-NMeFOSAA	79.4	40-135		12/4/24 5:08
D5-NEtFOSAA	80.0	40-150		12/4/24 5:08
D7-NMeFOSE	89.8	20-130		12/4/24 5:08
D9-NEtFOSE	86.4	15-130		12/4/24 5:08
13C3-HFPO-DA	113	40-130		12/4/24 5:08

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.47	mg/Kg dry	226001	2.509	1	003074-71-3	90	SW-846 8270E	11/5/24	11/6/24 13:28	KMC
Heptane, 2,5-dimethyl-	0.56	mg/Kg dry	273716	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 13:28	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
gamma-Chlordane [1]	ND	0.0055	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Aldrin [1]	ND	0.0055	0.00054	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
alpha-BHC [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
beta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
delta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
4,4'-DDD [1]	ND	0.0044	0.00093	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
4,4'-DDE [1]	ND	0.0044	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
4,4'-DDT [1]	ND	0.0044	0.00056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Dieldrin [1]	ND	0.0044	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endosulfan I [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endosulfan II [1]	ND	0.0087	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endosulfan sulfate [1]	ND	0.0087	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endrin [1]	ND	0.0087	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endrin aldehyde [1]	ND	0.0087	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Endrin ketone [1]	ND	0.0087	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Heptachlor [1]	ND	0.0055	0.00060	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Heptachlor epoxide [1]	ND	0.0055	0.00063	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Methoxychlor [1]	ND	0.055	0.0065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		11/21/24 0:10
Decachlorobiphenyl [2]	90.0	30-150		11/21/24 0:10
Tetrachloro-m-xylene [1]	75.1	30-150		11/21/24 0:10
Tetrachloro-m-xylene [2]	78.5	30-150		11/21/24 0:10

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1221 [1]	ND	0.089	0.041	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1232 [1]	ND	0.089	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1242 [1]	ND	0.089	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1248 [1]	ND	0.089	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1254 [1]	ND	0.089	0.026	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1260 [1]	ND	0.089	0.018	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1262 [1]	ND	0.089	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG
Aroclor-1268 [1]	ND	0.089	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		11/15/24 1:20
Decachlorobiphenyl [2]	68.8	30-150		11/15/24 1:20
Tetrachloro-m-xylene [1]	93.1	30-150		11/15/24 1:20
Tetrachloro-m-xylene [2]	90.7	30-150		11/15/24 1:20

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6300	19	6.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Arsenic	4.0	3.8	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Barium	42	1.9	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Beryllium	0.48	0.19	0.058	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Cadmium	ND	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Calcium	1400	19	9.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Chromium	16	0.76	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Cobalt	5.5	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Copper	13	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Iron	11000	19	8.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Lead	7.2	0.57	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Magnesium	3100	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Manganese	320	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Mercury	ND	0.028	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/27/24 4:36	MJH
Nickel	18	0.76	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Potassium	1500	190	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:57	HNN
Selenium	ND	3.8	0.94	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:57	HNN
Sodium	590	190	56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Vanadium	18	0.76	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN
Zinc	28	0.76	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:57	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z12-13 | Sampled: 10/30/2024 11:00

Sample ID: 24J4506-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	0.043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00083	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Benzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Bromochloromethane	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Bromoform	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Bromomethane	ND	0.0083	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
2-Butanone (MEK)	ND	0.033	0.0070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Butyl Alcohol (TBA)	ND	0.083	0.034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
n-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
sec-Butylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00083	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Carbon Disulfide	ND	0.017	0.0084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Carbon Tetrachloride	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Chlorobenzene	ND	0.0017	0.00040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Chlorodibromomethane	ND	0.00083	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Chloromethane	ND	0.0083	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Cyclohexane	ND	0.0083	0.0034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1-Dichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2-Dichloroethane	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1-Dichloroethylene	ND	0.0033	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2-Dichloropropane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
cis-1,3-Dichloropropene	ND	0.00083	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
trans-1,3-Dichloropropene	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Diisopropyl Ether (DIPE)	ND	0.00083	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Ethanol	ND	0.17	0.033	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Ethylbenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
2-Hexanone (MBK)	ND	0.017	0.0057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Methyl Cyclohexane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Methylene Chloride	ND	0.017	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Naphthalene	ND	0.0033	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
n-Propylbenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Styrene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Tetrachloroethylene	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Toluene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Trichloroethylene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	0.00098	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0083	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Vinyl Chloride	ND	0.0083	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
o-Xylene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 13:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/5/24 13:54
Toluene-d8	99.6	70-130		11/5/24 13:54
4-Bromofluorobenzene	97.2	70-130		11/5/24 13:54

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 13:54	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Atrazine	ND	0.78	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzaldehyde	ND	0.40	0.063	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Biphenyl	ND	0.78	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Caprolactam	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Acenaphthene	ND	0.20	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Acenaphthylene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Acetophenone	ND	0.40	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Aniline	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Anthracene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzo(a)anthracene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzo(a)pyrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzo(b)fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzo(g,h,i)perylene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Benzo(k)fluoranthene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Bis(2-chloroethoxy)methane	ND	0.40	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Bis(2-chloroethyl)ether	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.047	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Bromophenylphenylether	ND	0.40	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Butylbenzylphthalate	ND	0.40	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Chloroaniline	ND	0.77	0.070	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Chloro-3-methylphenol	ND	0.77	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Chloronaphthalene	ND	0.40	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Chlorophenol	ND	0.40	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Chlorophenylphenylether	ND	0.40	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Chrysene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Dibenz(a,h)anthracene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Dibenzofuran	ND	0.40	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Di-n-butylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
3,3-Dichlorobenzidine	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4-Dichlorophenol	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Diethylphthalate	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4-Dimethylphenol	ND	0.40	0.092	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Dimethylphthalate	ND	0.40	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4,6-Dinitro-2-methylphenol	ND	0.40	0.31	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4-Dinitrophenol	ND	0.77	0.31	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4-Dinitrotoluene	ND	0.40	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,6-Dinitrotoluene	ND	0.40	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Di-n-octylphthalate	ND	0.40	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Fluoranthene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Fluorene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Hexachlorobenzene	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.40	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Hexachloroethane	ND	0.40	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Isophorone	ND	0.40	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
1-Methylnaphthalene	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Methylnaphthalene	ND	0.20	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Methylphenol	ND	0.40	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
3/4-Methylphenol	ND	0.40	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Naphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Nitroaniline	ND	0.40	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
3-Nitroaniline	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Nitroaniline	ND	0.40	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Nitrobenzene	ND	0.40	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2-Nitrophenol	ND	0.40	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
4-Nitrophenol	ND	0.77	0.11	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.40	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
N-Nitrosodi-n-propylamine	ND	0.40	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Pentachlorophenol	ND	0.40	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Phenol	ND	0.40	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Pyrene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Pyridine	ND	0.40	0.046	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 13:48	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4,5-Trichlorophenol	ND	0.40	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC
2,4,6-Trichlorophenol	ND	0.40	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 13:48	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	75.4	30-130		11/6/24 13:48
Phenol-d6	78.9	30-130		11/6/24 13:48
Nitrobenzene-d5	69.6	30-130		11/6/24 13:48
2-Fluorobiphenyl	74.8	30-130		11/6/24 13:48
2,4,6-Tribromophenol	78.5	30-130		11/6/24 13:48
p-Terphenyl-d14	79.7	30-130		11/6/24 13:48

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.058	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 8:43	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	43.0	15-110		11/15/24 8:43	

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Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.13	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.083	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.065	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.058	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.30	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB

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Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:17	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	87.7	8-130		12/4/24 5:17
13C5-PFPeA	89.4	35-130		12/4/24 5:17
13C5-PFHxA	86.7	40-130		12/4/24 5:17
13C4-PFHpA	88.2	40-130		12/4/24 5:17
13C8-PFOA	86.5	40-130		12/4/24 5:17
13C9-PFNA	93.4	40-130		12/4/24 5:17
13C6-PFDA	89.3	40-130		12/4/24 5:17
13C7-PFUnA	97.0	40-130		12/4/24 5:17
13C2-PFDoA	88.7	40-130		12/4/24 5:17
13C2-PFTeDA	82.1	20-130		12/4/24 5:17
13C3-PFBS	91.2	40-135		12/4/24 5:17
13C3-PFHxS	91.6	40-130		12/4/24 5:17
13C8-PFOS	91.8	40-130		12/4/24 5:17
13C2-4:2FTS	91.1	40-165		12/4/24 5:17
13C2-6:2FTS	89.7	40-215		12/4/24 5:17
13C2-8:2FTS	102	40-275		12/4/24 5:17
13C8-PFOSA	75.0	40-130		12/4/24 5:17
D3-NMeFOSA	75.0	10-130		12/4/24 5:17
D5-NEtFOSA	72.6	10-130		12/4/24 5:17
D3-NMeFOSAA	69.5	40-135		12/4/24 5:17
D5-NEtFOSAA	72.2	40-150		12/4/24 5:17
D7-NMeFOSE	77.8	20-130		12/4/24 5:17
D9-NEtFOSE	75.6	15-130		12/4/24 5:17
13C3-HFPO-DA	94.7	40-130		12/4/24 5:17

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.53	mg/Kg dry	223335	2.509	1	003074-71-3	91	SW-846 8270E	11/5/24	11/6/24 13:48	KMC
Octane, 3-methyl-	0.66	mg/Kg dry	274985	2.406	1	002216-33-3	91	SW-846 8270E	11/5/24	11/6/24 13:48	KMC

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Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0059	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
gamma-Chlordane [1]	ND	0.0059	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Aldrin [1]	ND	0.0059	0.00058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
alpha-BHC [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
beta-BHC [1]	ND	0.0059	0.0031	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
delta-BHC [1]	ND	0.0059	0.0031	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
gamma-BHC (Lindane) [1]	ND	0.0024	0.00082	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
4,4'-DDD [1]	ND	0.0047	0.0010	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
4,4'-DDE [1]	ND	0.0047	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
4,4'-DDT [1]	ND	0.0047	0.00061	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Dieldrin [1]	ND	0.0047	0.00056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endosulfan I [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endosulfan II [1]	ND	0.0095	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endosulfan sulfate [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endrin [1]	ND	0.0095	0.0030	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endrin aldehyde [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Endrin ketone [1]	ND	0.0095	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Heptachlor [1]	ND	0.0059	0.00065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Heptachlor epoxide [1]	ND	0.0059	0.00069	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Methoxychlor [1]	ND	0.059	0.0070	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG
Toxaphene [1]	ND	0.12	0.049	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.5	30-150		11/21/24 0:22
Decachlorobiphenyl [2]	98.3	30-150		11/21/24 0:22
Tetrachloro-m-xylene [1]	81.4	30-150		11/21/24 0:22
Tetrachloro-m-xylene [2]	84.8	30-150		11/21/24 0:22

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Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1221 [1]	ND	0.090	0.041	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1232 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1242 [1]	ND	0.090	0.025	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1248 [1]	ND	0.090	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1254 [1]	ND	0.090	0.027	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1260 [1]	ND	0.090	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1262 [1]	ND	0.090	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG
Aroclor-1268 [1]	ND	0.090	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		11/15/24 1:38
Decachlorobiphenyl [2]	66.4	30-150		11/15/24 1:38
Tetrachloro-m-xylene [1]	89.6	30-150		11/15/24 1:38
Tetrachloro-m-xylene [2]	86.9	30-150		11/15/24 1:38

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Sample ID: 24J4506-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5600	19	6.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Arsenic	3.7	3.8	0.53	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Barium	40	1.9	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Beryllium	0.40	0.19	0.058	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Cadmium	ND	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Calcium	1200	19	9.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Chromium	13	0.76	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Cobalt	4.4	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Copper	13	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Iron	9900	19	8.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Lead	6.5	0.57	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Magnesium	2500	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Manganese	290	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Mercury	ND	0.029	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/27/24 4:38	MJH
Nickel	15	0.76	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Potassium	1300	190	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:05	HNN
Selenium	ND	3.8	0.94	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:05	HNN
Sodium	440	190	56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Vanadium	16	0.76	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN
Zinc	25	0.76	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:04	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z21-22 | Sampled: 10/30/2024 11:30

Sample ID: 24J4506-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.090	0.047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00090	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Benzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Bromochloromethane	ND	0.0018	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Bromodichloromethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Bromoform	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Bromomethane	ND	0.0090	0.0016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
2-Butanone (MEK)	ND	0.036	0.0076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Butyl Alcohol (TBA)	ND	0.090	0.037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
n-Butylbenzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
sec-Butylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Butylbenzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00090	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Carbon Disulfide	ND	0.018	0.0090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Carbon Tetrachloride	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Chlorobenzene	ND	0.0018	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Chlorodibromomethane	ND	0.00090	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Chloroform	ND	0.0036	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Chloromethane	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Cyclohexane	ND	0.0090	0.0037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2-Dibromoethane (EDB)	ND	0.00090	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1-Dichloroethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2-Dichloroethane	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1-Dichloroethylene	ND	0.0036	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2-Dichloropropane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
cis-1,3-Dichloropropene	ND	0.00090	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
trans-1,3-Dichloropropene	ND	0.00090	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Diisopropyl Ether (DIPE)	ND	0.00090	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Ethanol	ND	0.18	0.036	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Ethylbenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
2-Hexanone (MBK)	ND	0.018	0.0062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Methyl Cyclohexane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Methylene Chloride	ND	0.018	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Naphthalene	ND	0.0036	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
n-Propylbenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Styrene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.00090	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Tetrachloroethylene	ND	0.0018	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Toluene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Trichloroethylene	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0090	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Vinyl Chloride	ND	0.0090	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
m+p Xylene	ND	0.0036	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
o-Xylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.0	70-130		11/5/24 14:19
Toluene-d8	98.7	70-130		11/5/24 14:19
4-Bromofluorobenzene	98.5	70-130		11/5/24 14:19

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 14:19	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzo(g,h,i)perylene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Chlorophenylphenylether	ND	0.38	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Dibenz(a,h)anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4-Dinitrotoluene	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 14:09	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:09	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.8	30-130		11/6/24 14:09
Phenol-d6	67.3	30-130		11/6/24 14:09
Nitrobenzene-d5	59.2	30-130		11/6/24 14:09
2-Fluorobiphenyl	67.1	30-130		11/6/24 14:09
2,4,6-Tribromophenol	71.2	30-130		11/6/24 14:09
p-Terphenyl-d14	71.1	30-130		11/6/24 14:09

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 9:03	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	40.1	15-110		11/15/24 9:03	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:26	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	90.7	8-130		12/4/24 5:26
13C5-PFPeA	94.8	35-130		12/4/24 5:26
13C5-PFHxA	94.5	40-130		12/4/24 5:26
13C4-PFHpA	90.9	40-130		12/4/24 5:26
13C8-PFOA	96.1	40-130		12/4/24 5:26
13C9-PFNA	88.9	40-130		12/4/24 5:26
13C6-PFDA	90.9	40-130		12/4/24 5:26
13C7-PFUnA	94.4	40-130		12/4/24 5:26
13C2-PFDoA	89.0	40-130		12/4/24 5:26
13C2-PFTeDA	82.3	20-130		12/4/24 5:26
13C3-PFBS	86.8	40-135		12/4/24 5:26
13C3-PFHxS	84.6	40-130		12/4/24 5:26
13C8-PFOS	92.0	40-130		12/4/24 5:26
13C2-4:2FTS	89.2	40-165		12/4/24 5:26
13C2-6:2FTS	89.2	40-215		12/4/24 5:26
13C2-8:2FTS	89.6	40-275		12/4/24 5:26
13C8-PFOSA	78.4	40-130		12/4/24 5:26
D3-NMeFOSA	71.8	10-130		12/4/24 5:26
D5-NEtFOSA	75.1	10-130		12/4/24 5:26
D3-NMeFOSAA	77.1	40-135		12/4/24 5:26
D5-NEtFOSAA	74.6	40-150		12/4/24 5:26
D7-NMeFOSE	80.8	20-130		12/4/24 5:26
D9-NEtFOSE	76.7	15-130		12/4/24 5:26
13C3-HFPO-DA	97.2	40-130		12/4/24 5:26

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.42	mg/Kg dry	206234	2.509	1	003074-71-3	90	SW-846 8270E	11/5/24	11/6/24 14:09	KMC
Heptane, 2,5-dimethyl-	0.51	mg/Kg dry	249529	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 14:09	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
gamma-Chlordane [1]	ND	0.0055	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Aldrin [1]	ND	0.0055	0.00054	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
alpha-BHC [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
beta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
delta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
4,4'-DDD [1]	ND	0.0044	0.00093	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
4,4'-DDE [1]	ND	0.0044	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
4,4'-DDT [1]	ND	0.0044	0.00056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Dieldrin [1]	ND	0.0044	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endosulfan I [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endosulfan II [1]	ND	0.0088	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endosulfan sulfate [1]	ND	0.0088	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endrin [1]	ND	0.0088	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endrin aldehyde [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Endrin ketone [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Heptachlor [1]	ND	0.0055	0.00060	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Heptachlor epoxide [1]	ND	0.0055	0.00064	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Methoxychlor [1]	ND	0.055	0.0065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		11/21/24 0:34
Decachlorobiphenyl [2]	105	30-150		11/21/24 0:34
Tetrachloro-m-xylene [1]	89.2	30-150		11/21/24 0:34
Tetrachloro-m-xylene [2]	88.4	30-150		11/21/24 0:34

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1221 [1]	ND	0.086	0.040	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1232 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1242 [1]	ND	0.086	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1248 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1254 [1]	ND	0.086	0.026	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1260 [1]	ND	0.086	0.018	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1262 [1]	ND	0.086	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG
Aroclor-1268 [1]	ND	0.086	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 1:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.1	30-150		11/15/24 1:55
Decachlorobiphenyl [2]	68.0	30-150		11/15/24 1:55
Tetrachloro-m-xylene [1]	89.9	30-150		11/15/24 1:55
Tetrachloro-m-xylene [2]	87.0	30-150		11/15/24 1:55

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5200	18	5.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Antimony	ND	1.8	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Arsenic	4.0	3.5	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Barium	46	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Beryllium	0.36	0.18	0.054	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Cadmium	ND	0.35	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Calcium	1700	18	9.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Chromium	12	0.71	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Cobalt	4.7	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Copper	19	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Iron	11000	18	8.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Lead	5.1	0.53	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Magnesium	2400	18	4.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Manganese	360	0.35	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Mercury	ND	0.028	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/27/24 4:40	MJH
Nickel	20	0.71	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Potassium	1100	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:13	HNN
Selenium	ND	3.5	0.88	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Silver	ND	0.35	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:13	HNN
Sodium	320	180	52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Thallium	ND	1.8	0.56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Vanadium	20	0.71	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN
Zinc	22	0.71	0.62	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:11	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z35-36 | Sampled: 10/30/2024 12:00

Sample ID: 24J4506-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.56	0.42	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00098	0.00091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Benzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Bromochloromethane	ND	0.0020	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Bromodichloromethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Bromoform	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
2-Butanone (MEK)	ND	0.039	0.0082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Butyl Alcohol (TBA)	ND	0.098	0.040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
sec-Butylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00098	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Carbon Disulfide	ND	0.020	0.0098	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Chlorobenzene	ND	0.0020	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Chlorodibromomethane	ND	0.00098	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Chloroform	ND	0.0039	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Chloromethane	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Cyclohexane	ND	0.0098	0.0040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0039	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1-Dichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2-Dichloroethane	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1-Dichloroethylene	ND	0.0039	0.00093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2-Dichloropropane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Diisopropyl Ether (DIPE)	ND	0.00098	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Ethanol	ND	0.20	0.039	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Ethylbenzene	ND	0.0020	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
2-Hexanone (MBK)	ND	0.020	0.0067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Methyl Cyclohexane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Methylene Chloride	ND	0.020	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Naphthalene	ND	0.0039	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
n-Propylbenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Styrene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Tetrachloroethylene	0.0021	0.0020	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Toluene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Trichloroethylene	ND	0.0020	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Vinyl Chloride	ND	0.0098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
m+p Xylene	ND	0.0039	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
o-Xylene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 14:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/5/24 14:45
Toluene-d8	100	70-130		11/5/24 14:45
4-Bromofluorobenzene	99.6	70-130		11/5/24 14:45

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/5/24	11/5/24 14:45	MFF

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.056	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Atrazine	ND	0.81	0.053	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzaldehyde	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Biphenyl	ND	0.81	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Caprolactam	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Acenaphthene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Acenaphthylene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Acetophenone	ND	0.41	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Aniline	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Anthracene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzo(a)anthracene	ND	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzo(a)pyrene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzo(b)fluoranthene	ND	0.21	0.033	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzo(g,h,i)perylene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Benzo(k)fluoranthene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Bis(2-chloroethoxy)methane	ND	0.41	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Bis(2-chloroethyl)ether	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.049	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Bromophenylphenylether	ND	0.41	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Butylbenzylphthalate	ND	0.41	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Carbazole	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Chloroaniline	ND	0.80	0.073	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Chloro-3-methylphenol	ND	0.80	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Chloronaphthalene	ND	0.41	0.036	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Chlorophenol	ND	0.41	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Chlorophenylphenylether	ND	0.41	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Chrysene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Dibenz(a,h)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Dibenzofuran	ND	0.41	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Di-n-butylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
3,3-Dichlorobenzidine	ND	0.21	0.089	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4-Dichlorophenol	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Diethylphthalate	ND	0.41	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4-Dimethylphenol	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Dimethylphthalate	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4,6-Dinitro-2-methylphenol	ND	0.41	0.33	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4-Dinitrophenol	ND	0.80	0.32	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4-Dinitrotoluene	ND	0.41	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,6-Dinitrotoluene	ND	0.41	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Di-n-octylphthalate	ND	0.41	0.058	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Fluoranthene	ND	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Fluorene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Hexachlorobenzene	ND	0.41	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.41	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Hexachloroethane	ND	0.41	0.038	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Indeno(1,2,3-cd)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Isophorone	ND	0.41	0.044	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
1-Methylnaphthalene	ND	0.21	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Methylnaphthalene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Methylphenol	ND	0.41	0.055	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
3/4-Methylphenol	ND	0.41	0.054	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Naphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Nitroaniline	ND	0.41	0.050	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
3-Nitroaniline	ND	0.41	0.086	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Nitroaniline	ND	0.41	0.046	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Nitrobenzene	ND	0.41	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2-Nitrophenol	ND	0.41	0.040	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
4-Nitrophenol	ND	0.80	0.11	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.41	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
N-Nitrosodi-n-propylamine	ND	0.41	0.057	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Pentachlorophenol	ND	0.41	0.15	mg/Kg dry	1	V-05	SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Phenanthrene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Phenol	ND	0.41	0.052	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Pyrene	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Pyridine	ND	0.41	0.048	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/5/24	11/6/24 14:29	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.041	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4,5-Trichlorophenol	ND	0.41	0.042	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC
2,4,6-Trichlorophenol	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	11/5/24	11/6/24 14:29	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.1	30-130		11/6/24 14:29
Phenol-d6	72.9	30-130		11/6/24 14:29
Nitrobenzene-d5	63.9	30-130		11/6/24 14:29
2-Fluorobiphenyl	71.8	30-130		11/6/24 14:29
2,4,6-Tribromophenol	78.9	30-130		11/6/24 14:29
p-Terphenyl-d14	77.9	30-130		11/6/24 14:29

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.061	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 9:23	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	47.6	15-110		11/15/24 9:23	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	12/4/24 5:35	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	90.5	8-130		12/4/24 5:35
13C5-PFPeA	91.8	35-130		12/4/24 5:35
13C5-PFHxA	92.5	40-130		12/4/24 5:35
13C4-PFHpA	92.4	40-130		12/4/24 5:35
13C8-PFOA	93.9	40-130		12/4/24 5:35
13C9-PFNA	87.5	40-130		12/4/24 5:35
13C6-PFDA	93.6	40-130		12/4/24 5:35
13C7-PFUnA	103	40-130		12/4/24 5:35
13C2-PFDoA	93.0	40-130		12/4/24 5:35
13C2-PFTeDA	84.9	20-130		12/4/24 5:35
13C3-PFBS	89.7	40-135		12/4/24 5:35
13C3-PFHxS	94.5	40-130		12/4/24 5:35
13C8-PFOS	91.7	40-130		12/4/24 5:35
13C2-4:2FTS	92.4	40-165		12/4/24 5:35
13C2-6:2FTS	89.1	40-215		12/4/24 5:35
13C2-8:2FTS	100	40-275		12/4/24 5:35
13C8-PFOSA	79.5	40-130		12/4/24 5:35
D3-NMeFOSA	69.9	10-130		12/4/24 5:35
D5-NEtFOSA	71.3	10-130		12/4/24 5:35
D3-NMeFOSAA	91.6	40-135		12/4/24 5:35
D5-NEtFOSAA	90.1	40-150		12/4/24 5:35
D7-NMeFOSE	81.4	20-130		12/4/24 5:35
D9-NEtFOSE	78.2	15-130		12/4/24 5:35
13C3-HFPO-DA	98.9	40-130		12/4/24 5:35

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Heptane, 2,3-dimethyl-	0.47	mg/Kg dry	225543	2.509	1	003074-71-3	91	SW-846 8270E	11/5/24	11/6/24 14:29	KMC
Heptane, 2,5-dimethyl-	0.56	mg/Kg dry	271305	2.406	1	002216-30-0	91	SW-846 8270E	11/5/24	11/6/24 14:29	KMC

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0061	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
gamma-Chlordane [1]	ND	0.0061	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Aldrin [1]	ND	0.0061	0.00060	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
alpha-BHC [1]	ND	0.0061	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
beta-BHC [1]	ND	0.0061	0.0032	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
delta-BHC [1]	ND	0.0061	0.0032	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
gamma-BHC (Lindane) [1]	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
4,4'-DDD [1]	ND	0.0049	0.0010	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
4,4'-DDE [1]	ND	0.0049	0.00054	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
4,4'-DDT [1]	ND	0.0049	0.00062	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Dieldrin [1]	ND	0.0049	0.00058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endosulfan I [1]	ND	0.0061	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endosulfan II [1]	ND	0.0097	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endosulfan sulfate [1]	ND	0.0097	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endrin [1]	ND	0.0097	0.0031	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endrin aldehyde [1]	ND	0.0097	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Endrin ketone [1]	ND	0.0097	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Heptachlor [1]	ND	0.0061	0.00067	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Heptachlor epoxide [1]	ND	0.0061	0.00070	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Methoxychlor [1]	ND	0.061	0.0072	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG
Toxaphene [1]	ND	0.12	0.051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 0:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		11/21/24 0:46
Decachlorobiphenyl [2]	109	30-150		11/21/24 0:46
Tetrachloro-m-xylene [1]	95.0	30-150		11/21/24 0:46
Tetrachloro-m-xylene [2]	99.0	30-150		11/21/24 0:46

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1221 [1]	ND	0.092	0.043	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1232 [1]	ND	0.092	0.023	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1242 [1]	ND	0.092	0.025	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1248 [1]	ND	0.092	0.022	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1254 [1]	ND	0.092	0.027	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1260 [1]	ND	0.092	0.019	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1262 [1]	ND	0.092	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG
Aroclor-1268 [1]	ND	0.092	0.024	mg/Kg dry	4		SW-846 8082A	11/8/24	11/15/24 2:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		11/15/24 2:13
Decachlorobiphenyl [2]	71.9	30-150		11/15/24 2:13
Tetrachloro-m-xylene [1]	92.4	30-150		11/15/24 2:13
Tetrachloro-m-xylene [2]	90.0	30-150		11/15/24 2:13

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3300	20	6.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Arsenic	2.4	4.0	0.56	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Barium	24	2.0	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Beryllium	0.23	0.20	0.060	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Cadmium	ND	0.40	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Calcium	890	20	10	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Chromium	7.5	0.79	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Cobalt	3.4	2.0	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Copper	9.7	1.6	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Iron	7800	20	9.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Lead	4.0	0.60	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Magnesium	2000	20	4.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Manganese	230	0.40	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Mercury	ND	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:58	MJH
Nickel	9.0	0.79	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Potassium	470	200	49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:19	HNN
Selenium	ND	4.0	0.99	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Silver	ND	0.40	0.24	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:19	HNN
Sodium	220	200	59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Thallium	ND	2.0	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Vanadium	11	0.79	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN
Zinc	18	0.79	0.70	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:18	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: CLMW-03-Z42-43 | Sampled: 10/30/2024 12:10

Sample ID: 24J4506-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.7	50	2.0	µg/L	1	J, V-05	SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 10:36	EEH

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.0		70-130		11/6/24 10:36
Toluene-d8	97.9		70-130		11/6/24 10:36
4-Bromofluorobenzene	**131**	*	70-130	S-17	11/6/24 10:36

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/5/24	11/6/24 10:36	EEH

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	21	5.9	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Atrazine	ND	21	1.7	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzaldehyde	ND	10	0.76	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Biphenyl	ND	21	0.97	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Caprolactam	ND	10	0.75	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Acenaphthene	ND	5.2	0.82	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Acenaphthylene	ND	5.2	0.67	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Acetophenone	ND	10	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Aniline	ND	21	9.4	µg/L	1	V-05	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Anthracene	ND	5.2	0.57	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzo(a)anthracene	ND	5.2	0.40	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzo(a)pyrene	ND	5.2	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzo(b)fluoranthene	ND	5.2	0.34	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzo(g,h,i)perylene	ND	5.2	0.55	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Benzo(k)fluoranthene	ND	5.2	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Bis(2-chloroethoxy)methane	ND	10	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Bis(2-chloroethyl)ether	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.79	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.34	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Bromophenylphenylether	ND	10	0.75	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Butylbenzylphthalate	ND	10	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Carbazole	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Chloroaniline	ND	10	5.5	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Chloro-3-methylphenol	ND	10	0.66	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Chloronaphthalene	ND	10	0.85	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Chlorophenol	ND	10	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Chlorophenylphenylether	ND	10	0.91	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Chrysene	ND	5.2	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Dibenz(a,h)anthracene	ND	5.2	0.50	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Dibenzofuran	ND	5.2	0.90	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Di-n-butylphthalate	ND	10	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
3,3-Dichlorobenzidine	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4-Dichlorophenol	ND	10	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Diethylphthalate	ND	10	0.58	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4-Dimethylphenol	ND	10	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Dimethylphthalate	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4,6-Dinitro-2-methylphenol	ND	21	2.4	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4-Dinitrophenol	ND	10	1.4	µg/L	1	V-04, V-05	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4-Dinitrotoluene	ND	10	0.37	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,6-Dinitrotoluene	ND	10	0.58	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Di-n-octylphthalate	ND	10	0.34	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Fluoranthene	ND	5.2	0.59	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Fluorene	ND	5.2	0.80	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Hexachlorobenzene	ND	10	0.76	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Hexachlorocyclopentadiene	ND	10	3.0	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Hexachloroethane	ND	10	1.3	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Indeno(1,2,3-cd)pyrene	ND	5.2	0.50	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Isophorone	ND	10	0.57	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
1-Methylnaphthalene	ND	5.2	1.0	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Methylnaphthalene	ND	5.2	0.98	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
3/4-Methylphenol	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Naphthalene	ND	5.2	0.95	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
3-Nitroaniline	ND	10	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Nitroaniline	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Nitrobenzene	ND	10	0.71	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2-Nitrophenol	ND	10	0.57	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
N-Nitrosodiphenylamine/Diphenylamine	0.57	10	0.50	µg/L	1	J	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
N-Nitrosodi-n-propylamine	ND	10	0.69	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Pentachlorophenol	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Phenanthrene	ND	5.2	0.75	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Phenol	ND	10	0.62	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Pyrene	ND	5.2	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
Pyridine	ND	21	5.4	µg/L	1	V-34	SW-846 8270E	11/5/24	11/7/24 14:00	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4,5-Trichlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL
2,4,6-Trichlorophenol	ND	10	0.40	µg/L	1		SW-846 8270E	11/5/24	11/7/24 14:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.9	15-110		11/7/24 14:00
Phenol-d6	30.5	15-110		11/7/24 14:00
Nitrobenzene-d5	63.4	30-130		11/7/24 14:00
2-Fluorobiphenyl	63.1	30-130		11/7/24 14:00
2,4,6-Tribromophenol	77.4	15-110		11/7/24 14:00
p-Terphenyl-d14	87.8	30-130		11/7/24 14:00

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.75	0.20	0.033	µg/L	1		SW-846 8270E	11/5/24	11/12/24 5:12	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	25.0	15-110		11/12/24 5:12	

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.3	0.79	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoropentanoic acid (PFPeA)	ND	3.2	0.44	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorooctanoic acid (PFOA)	ND	1.6	0.41	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorononanoic acid (PFNA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.61	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.84	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.39	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.71	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	3.0	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.3	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.84	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.92	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.3	1.7	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	2.2	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	6.9	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	8.9	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.56	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.46	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.42	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.1	ng/L	1		Draft Method 1633	11/25/24	12/3/24 20:22	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	94.1	5-130		12/3/24 20:22
13C5-PFPeA	93.9	40-130		12/3/24 20:22
13C5-PFHxA	93.3	40-130		12/3/24 20:22
13C4-PFHpA	94.3	40-130		12/3/24 20:22
13C8-PFOA	93.8	40-130		12/3/24 20:22
13C9-PFNA	88.2	40-130		12/3/24 20:22
13C6-PFDA	97.9	40-130		12/3/24 20:22
13C7-PFUnA	99.0	30-130		12/3/24 20:22
13C2-PFDoA	82.5	10-130		12/3/24 20:22
13C2-PFTeDA	75.0	10-130		12/3/24 20:22
13C3-PFBS	91.4	40-135		12/3/24 20:22
13C3-PFHxS	93.9	40-130		12/3/24 20:22
13C8-PFOS	89.5	40-130		12/3/24 20:22
13C2-4:2FTS	97.5	40-200		12/3/24 20:22
13C2-6:2FTS	91.8	40-200		12/3/24 20:22
13C2-8:2FTS	114	40-300		12/3/24 20:22
13C8-PFOSA	71.2	40-130		12/3/24 20:22
D3-NMeFOSA	42.2	10-130		12/3/24 20:22
D5-NEtFOSA	43.0	10-130		12/3/24 20:22
D3-NMeFOSAA	87.4	40-170		12/3/24 20:22
D5-NEtFOSAA	83.8	25-135		12/3/24 20:22
D7-NMeFOSE	61.3	10-130		12/3/24 20:22
D9-NEtFOSE	56.7	10-130		12/3/24 20:22
13C3-HFPO-DA	97.3	40-130		12/3/24 20:22

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270E	11/5/24	11/7/24 14:00	BGL

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.050	0.016	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
gamma-Chlordane [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Aldrin [1]	ND	0.050	0.0036	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
alpha-BHC [1]	ND	0.050	0.021	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
beta-BHC [1]	ND	0.050	0.021	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
delta-BHC [1]	ND	0.050	0.019	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.0042	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
4,4'-DDD [1]	ND	0.040	0.0044	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
4,4'-DDE [1]	ND	0.040	0.0030	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
4,4'-DDT [1]	ND	0.040	0.0044	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Dieldrin [1]	ND	0.0020	0.0014	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endosulfan I [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endosulfan II [1]	ND	0.080	0.014	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endosulfan sulfate [1]	ND	0.080	0.016	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endrin [1]	ND	0.080	0.019	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endrin aldehyde [1]	ND	0.080	0.022	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Endrin ketone [1]	ND	0.080	0.016	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Heptachlor [1]	ND	0.050	0.0044	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Heptachlor epoxide [1]	ND	0.050	0.0037	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Methoxychlor [1]	ND	0.50	0.068	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG
Toxaphene [1]	ND	0.99	0.40	µg/L	1		SW-846 8081B	11/5/24	11/8/24 16:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	31.1	30-150		11/8/24 16:32
Decachlorobiphenyl [2]	33.2	30-150		11/8/24 16:32
Tetrachloro-m-xylene [1]	54.9	30-150		11/8/24 16:32
Tetrachloro-m-xylene [2]	56.4	30-150		11/8/24 16:32

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1221 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1232 [1]	ND	0.20	0.093	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1248 [1]	ND	0.20	0.093	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1260 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1262 [1]	ND	0.20	0.082	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM
Aroclor-1268 [1]	ND	0.20	0.075	µg/L	1		SW-846 8082A	11/5/24	11/7/24 19:12	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	43.4	30-150		11/7/24 19:12
Decachlorobiphenyl [2]	42.8	30-150		11/7/24 19:12
Tetrachloro-m-xylene [1]	58.9	30-150		11/7/24 19:12
Tetrachloro-m-xylene [2]	57.5	30-150		11/7/24 19:12

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Barium	ND	0.050	0.0098	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Calcium	ND	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Iron	ND	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Magnesium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Manganese	ND	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/20/24	11/21/24 11:14	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Potassium	ND	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Sodium	ND	2.0	0.38	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:23	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:47	HNN

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Project Location: Brooklyn, NY | Sample Description: | Work Order: 24J4506

Date Received: 10/31/2024

Field Sample #: FB-241030 | Sampled: 10/30/2024 15:00

Sample ID: 24J4506-09

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET
Total Suspended Solids	ND	10		mg/L	1		Draft Method 1633	11/5/24	11/5/24 5:48	LL

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01RE1 [CLMW-06-Z25-26]	B393181	5.34	4.00	11/26/24
24J4506-02RE1 [CLMW-06-Z36-37]	B393181	5.22	4.00	11/26/24
24J4506-03RE1 [CLMW-06-Z42-43]	B393181	5.96	4.00	11/26/24
24J4506-04RE1 [CLMW-06-Z48-49]	B393181	5.86	4.00	11/26/24
24J4506-05RE1 [CLMW-03-Z12-13]	B393181	5.85	4.00	11/26/24
24J4506-06RE1 [CLMW-03-Z21-22]	B393181	5.94	4.00	11/26/24
24J4506-07RE1 [CLMW-03-Z35-36]	B393181	5.69	4.00	11/26/24
24J4506-08RE1 [CLMW-03-Z42-43]	B393181	6.22	4.00	11/26/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J4506-09 [FB-241030]	B391382	50.0	11/05/24

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B392725	506	4.00	11/25/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J4506-01 [CLMW-06-Z25-26]	B392045	11/12/24
24J4506-02 [CLMW-06-Z36-37]	B392045	11/12/24
24J4506-03 [CLMW-06-Z42-43]	B392045	11/12/24
24J4506-04 [CLMW-06-Z48-49]	B392045	11/12/24
24J4506-05 [CLMW-03-Z12-13]	B392045	11/12/24
24J4506-06 [CLMW-03-Z21-22]	B392045	11/12/24
24J4506-07 [CLMW-03-Z35-36]	B392045	11/12/24
24J4506-08 [CLMW-03-Z42-43]	B392045	11/12/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391603	1.58	50.0	11/06/24
24J4506-02 [CLMW-06-Z36-37]	B391603	1.58	50.0	11/06/24
24J4506-03 [CLMW-06-Z42-43]	B391603	1.56	50.0	11/06/24
24J4506-04 [CLMW-06-Z48-49]	B391603	1.54	50.0	11/06/24
24J4506-05 [CLMW-03-Z12-13]	B391603	1.50	50.0	11/06/24
24J4506-06 [CLMW-03-Z21-22]	B391603	1.56	50.0	11/06/24
24J4506-07 [CLMW-03-Z35-36]	B391603	1.60	50.0	11/06/24
24J4506-08 [CLMW-03-Z42-43]	B391603	1.54	50.0	11/06/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391602	50.0	50.0	11/06/24

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Sample Extraction Data

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B392686	10.0	10.0	11/20/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B393090	0.605	50.0	11/25/24
24J4506-02 [CLMW-06-Z36-37]	B393090	0.595	50.0	11/25/24
24J4506-03 [CLMW-06-Z42-43]	B393090	0.596	50.0	11/25/24
24J4506-04 [CLMW-06-Z48-49]	B393090	0.606	50.0	11/25/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-08 [CLMW-03-Z42-43]	B393099	0.662	50.0	11/25/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-05 [CLMW-03-Z12-13]	B393101	0.607	50.0	11/25/24
24J4506-06 [CLMW-03-Z21-22]	B393101	0.617	50.0	11/25/24
24J4506-07 [CLMW-03-Z35-36]	B393101	0.605	50.0	11/25/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B392152	11.0	10.0	11/13/24
24J4506-02 [CLMW-06-Z36-37]	B392152	10.6	10.0	11/13/24
24J4506-03 [CLMW-06-Z42-43]	B392152	10.7	10.0	11/13/24
24J4506-04 [CLMW-06-Z48-49]	B392152	10.5	10.0	11/13/24
24J4506-05 [CLMW-03-Z12-13]	B392152	10.4	10.0	11/13/24
24J4506-06 [CLMW-03-Z21-22]	B392152	10.0	10.0	11/13/24
24J4506-07 [CLMW-03-Z35-36]	B392152	10.3	10.0	11/13/24
24J4506-08 [CLMW-03-Z42-43]	B392152	10.1	10.0	11/13/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391389	101	2.00	11/05/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391688	10.7	10.0	11/08/24
24J4506-02 [CLMW-06-Z36-37]	B391688	10.8	10.0	11/08/24
24J4506-03 [CLMW-06-Z42-43]	B391688	10.3	10.0	11/08/24
24J4506-04 [CLMW-06-Z48-49]	B391688	10.5	10.0	11/08/24
24J4506-05 [CLMW-03-Z12-13]	B391688	10.3	10.0	11/08/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-06 [CLMW-03-Z21-22]	B391688	10.6	10.0	11/08/24
24J4506-07 [CLMW-03-Z35-36]	B391688	10.4	10.0	11/08/24
24J4506-08 [CLMW-03-Z42-43]	B391688	10.7	10.0	11/08/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391391	101	2.00	11/05/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391435	5.71	10.0	11/05/24
24J4506-02 [CLMW-06-Z36-37]	B391435	5.42	10.0	11/05/24
24J4506-03 [CLMW-06-Z42-43]	B391435	5.90	10.0	11/05/24
24J4506-04 [CLMW-06-Z48-49]	B391435	5.96	10.0	11/05/24
24J4506-05 [CLMW-03-Z12-13]	B391435	6.90	10.0	11/05/24
24J4506-06 [CLMW-03-Z21-22]	B391435	7.12	10.0	11/05/24
24J4506-07 [CLMW-03-Z35-36]	B391435	6.28	10.0	11/05/24
24J4506-08 [CLMW-03-Z42-43]	B391435	6.28	10.0	11/05/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391462	5	5.00	11/05/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391425	30.2	1.00	11/05/24
24J4506-02 [CLMW-06-Z36-37]	B391425	30.1	1.00	11/05/24
24J4506-03 [CLMW-06-Z42-43]	B391425	30.0	1.00	11/05/24
24J4506-04 [CLMW-06-Z48-49]	B391425	30.4	1.00	11/05/24
24J4506-05 [CLMW-03-Z12-13]	B391425	30.2	1.00	11/05/24
24J4506-06 [CLMW-03-Z21-22]	B391425	30.4	1.00	11/05/24
24J4506-07 [CLMW-03-Z35-36]	B391425	30.2	1.00	11/05/24
24J4506-08 [CLMW-03-Z42-43]	B391425	30.3	1.00	11/05/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391934	20.2	1.00	11/11/24
24J4506-02 [CLMW-06-Z36-37]	B391934	20.2	1.00	11/11/24
24J4506-03 [CLMW-06-Z42-43]	B391934	20.2	1.00	11/11/24
24J4506-04 [CLMW-06-Z48-49]	B391934	20.3	1.00	11/11/24
24J4506-05 [CLMW-03-Z12-13]	B391934	20.1	1.00	11/11/24
24J4506-06 [CLMW-03-Z21-22]	B391934	20.3	1.00	11/11/24
24J4506-07 [CLMW-03-Z35-36]	B391934	20.3	1.00	11/11/24
24J4506-08 [CLMW-03-Z42-43]	B391934	20.1	1.00	11/11/24

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Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391397	95.3	1.00	11/05/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391403	990	1.00	11/05/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-01 [CLMW-06-Z25-26]	B391415	1.03	50.0	11/05/24
24J4506-02 [CLMW-06-Z36-37]	B391415	1.07	50.0	11/05/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-03 [CLMW-06-Z42-43]	B391854	1.08	50.0	11/10/24
24J4506-04 [CLMW-06-Z48-49]	B391854	1.05	50.0	11/10/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J4506-05 [CLMW-03-Z12-13]	B391995	1.03	50.0	11/12/24
24J4506-06 [CLMW-03-Z21-22]	B391995	1.14	50.0	11/12/24
24J4506-07 [CLMW-03-Z35-36]	B391995	1.00	50.0	11/12/24
24J4506-08 [CLMW-03-Z42-43]	B391995	1.04	50.0	11/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J4506-09 [FB-241030]	B391856	50.0	50.0	11/10/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391435 - SW-846 5035										
Blank (B391435-BLK1)				Prepared & Analyzed: 11/05/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391435 - SW-846 5035										
Blank (B391435-BLK1)				Prepared & Analyzed: 11/05/24						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0498*		mg/Kg wet	0.05000		99.7	70-130			
Surrogate: Toluene-d8	*0.0495*		mg/Kg wet	0.05000		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0482*		mg/Kg wet	0.05000		96.4	70-130			
LCS (B391435-BS1)				Prepared & Analyzed: 11/05/24						
Acetone	0.191	0.10	mg/Kg wet	0.2000		95.3	70-160			†
tert-Amyl Alcohol (TAA)	0.199	0.020	mg/Kg wet	0.2000		99.3	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-130			
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.02000		105	70-130			
Benzene	0.0197	0.0020	mg/Kg wet	0.02000		98.4	70-130			
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.02000		113	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130			
Bromoform	0.0213	0.0020	mg/Kg wet	0.02000		106	70-130			
Bromomethane	0.0221	0.010	mg/Kg wet	0.02000		110	40-130			†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.2000		98.7	70-160			†
tert-Butyl Alcohol (TBA)	0.202	0.10	mg/Kg wet	0.2000		101	40-130			†
n-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130			
sec-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.5	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.5	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.02000		97.0	70-130			
Carbon Disulfide	0.189	0.020	mg/Kg wet	0.2000		94.4	70-130			
Carbon Tetrachloride	0.0195	0.0020	mg/Kg wet	0.02000		97.3	70-130			
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.2	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.02000		104	70-130			
Chloroethane	0.0182	0.020	mg/Kg wet	0.02000		91.0	70-130			J
Chloroform	0.0193	0.0040	mg/Kg wet	0.02000		96.4	70-130			
Chloromethane	0.0168	0.010	mg/Kg wet	0.02000		84.2	70-130			
Cyclohexane	0.0185	0.010	mg/Kg wet	0.02000		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0199	0.0040	mg/Kg wet	0.02000		99.5	70-130			
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.02000		102	70-130			
1,2-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.3	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0167	0.020	mg/Kg wet	0.02000		83.6	40-160			J †
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.02000		95.8	70-130			
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391435 - SW-846 5035											
LCS (B391435-BS1)				Prepared & Analyzed: 11/05/24							
1,1-Dichloroethylene	0.0179	0.0040	mg/Kg wet	0.02000		89.6	70-130				
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.02000		94.5	70-130				
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130				
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.02000		94.0	70-130				
cis-1,3-Dichloropropene	0.0202	0.0010	mg/Kg wet	0.02000		101	70-130				
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.02000		100	70-130				
Diisopropyl Ether (DIPE)	0.0188	0.0010	mg/Kg wet	0.02000		93.9	70-130				
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.7	70-130				
2-Hexanone (MBK)	0.200	0.020	mg/Kg wet	0.2000		100	70-160				†
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
p-Isopropyltoluene (p-Cymene)	0.0192	0.0020	mg/Kg wet	0.02000		95.9	70-130				
Methyl Acetate	0.0189	0.0020	mg/Kg wet	0.02000		94.7	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.02000		101	70-130				
Methyl Cyclohexane	0.0194	0.0020	mg/Kg wet	0.02000		96.8	70-130				
Methylene Chloride	0.0184	0.020	mg/Kg wet	0.02000		92.0	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.2000		101	70-160				†
Naphthalene	0.0168	0.0040	mg/Kg wet	0.02000		83.9	40-130				†
n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.4	70-130				
Styrene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130				
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.02000		105	70-130				
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		91.0	70-130				
Toluene	0.0182	0.0020	mg/Kg wet	0.02000		91.2	70-130				
1,2,3-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.02000		85.8	70-130				
1,2,4-Trichlorobenzene	0.0168	0.0020	mg/Kg wet	0.02000		84.1	70-130				
1,1,1-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130				
1,1,2-Trichloroethane	0.0223	0.0020	mg/Kg wet	0.02000		111	70-130				
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130				
Trichlorofluoromethane (Freon 11)	0.0199	0.010	mg/Kg wet	0.02000		99.7	70-130				
1,2,3-Trichloropropane	0.0224	0.0020	mg/Kg wet	0.02000		112	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0197	0.010	mg/Kg wet	0.02000		98.4	70-130				
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.7	70-130				
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.1	70-130				
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.02000		86.9	40-130				†
m+p Xylene	0.0386	0.0040	mg/Kg wet	0.04000		96.4	70-130				
o-Xylene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0486*		mg/Kg wet	0.05000		97.3	70-130				
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.05000		99.2	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.05000		100	70-130				
LCS (B391435-BS2)				Prepared & Analyzed: 11/05/24							
Ethanol	0.0888	0.20	mg/Kg wet	0.2000		44.4	40-160			J, V-05	
Surrogate: 1,2-Dichloroethane-d4	*0.0485*		mg/Kg wet	0.05000		96.9	70-130				
Surrogate: Toluene-d8	*0.0495*		mg/Kg wet	0.05000		99.0	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0483*		mg/Kg wet	0.05000		96.5	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391435 - SW-846 5035											
LCS Dup (B391435-BSD1)				Prepared & Analyzed: 11/05/24							
Acetone	0.188	0.10	mg/Kg wet	0.2000		94.2	70-160	1.18	25		†
tert-Amyl Alcohol (TAA)	0.194	0.020	mg/Kg wet	0.2000		97.1	70-130	2.23	25		
tert-Amyl Ethyl Ether (TAEE)	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130	1.59	25		
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.02000		102	70-130	2.99	25		
Benzene	0.0188	0.0020	mg/Kg wet	0.02000		93.9	70-130	4.68	25		
Bromochloromethane	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130	6.13	25		
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.02000		99.1	70-130	3.80	25		
Bromoform	0.0219	0.0020	mg/Kg wet	0.02000		110	70-130	3.06	25		
Bromomethane	0.0220	0.010	mg/Kg wet	0.02000		110	40-130	0.272	25		†
2-Butanone (MEK)	0.196	0.040	mg/Kg wet	0.2000		98.0	70-160	0.742	25		†
tert-Butyl Alcohol (TBA)	0.197	0.10	mg/Kg wet	0.2000		98.5	40-130	2.50	25		†
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130	3.03	25		
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.5	70-130	2.12	25		
tert-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-160	3.41	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0190	0.0010	mg/Kg wet	0.02000		95.1	70-130	1.98	25		
Carbon Disulfide	0.182	0.020	mg/Kg wet	0.2000		90.8	70-130	3.93	25		
Carbon Tetrachloride	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130	3.77	25		
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.4	70-130	1.85	25		
Chlorodibromomethane	0.0204	0.0010	mg/Kg wet	0.02000		102	70-130	1.75	25		
Chloroethane	0.0185	0.020	mg/Kg wet	0.02000		92.4	70-130	1.53	25	J	
Chloroform	0.0189	0.0040	mg/Kg wet	0.02000		94.5	70-130	1.99	25		
Chloromethane	0.0168	0.010	mg/Kg wet	0.02000		84.1	70-130	0.119	25		
Cyclohexane	0.0177	0.010	mg/Kg wet	0.02000		88.6	70-130	4.09	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0198	0.0040	mg/Kg wet	0.02000		99.2	70-130	0.302	25		
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.02000		103	70-130	1.85	25		
1,2-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130	0.419	25		
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.1	70-130	1.25	25		
1,4-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.02000		90.6	70-130	7.64	25		
Dichlorodifluoromethane (Freon 12)	0.0154	0.020	mg/Kg wet	0.02000		76.8	40-160	8.48	25	J	†
1,1-Dichloroethane	0.0184	0.0020	mg/Kg wet	0.02000		91.9	70-130	4.16	25		
1,2-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.02000		99.8	70-130	2.08	25		
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.02000		85.6	70-130	4.57	25		
cis-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130	0.948	25		
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130	0.00	25		
1,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.02000		89.1	70-130	5.35	25		
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.02000		99.9	70-130	0.897	25		
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.02000		95.1	70-130	5.12	25		
Diisopropyl Ether (DIPE)	0.0184	0.0010	mg/Kg wet	0.02000		92.0	70-130	2.04	25		
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.3	70-130	0.415	25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.2000		102	70-160	2.08	25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.02000		97.5	70-130	0.613	25		
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.02000		94.7	70-130	1.26	25		
Methyl Acetate	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130	7.81	25		
Methyl tert-Butyl Ether (MTBE)	0.0200	0.0040	mg/Kg wet	0.02000		100	70-130	0.797	25		
Methyl Cyclohexane	0.0191	0.0020	mg/Kg wet	0.02000		95.6	70-130	1.25	25		
Methylene Chloride	0.0179	0.020	mg/Kg wet	0.02000		89.6	40-160	2.64	25	J	†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.2000		100	70-160	0.229	25		†
Naphthalene	0.0168	0.0040	mg/Kg wet	0.02000		83.9	40-130	0.00	25		†
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130	4.21	25		
Styrene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	1.08	25		
1,1,2,2-Tetrachloroethane	0.0215	0.0010	mg/Kg wet	0.02000		108	70-130	2.35	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.02000		89.9	70-130	1.22	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391435 - SW-846 5035										
LCS Dup (B391435-BSD1)				Prepared & Analyzed: 11/05/24						
Toluene	0.0170	0.0020	mg/Kg wet	0.02000		85.2	70-130	6.80	25	
1,2,3-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.02000		88.3	70-130	2.87	25	
1,2,4-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.02000		82.1	70-130	2.41	25	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.02000		90.8	70-130	3.04	25	
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	9.60	25	
Trichloroethylene	0.0181	0.0020	mg/Kg wet	0.02000		90.5	70-130	3.37	25	
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.02000		90.2	70-130	10.0	25	
1,2,3-Trichloropropane	0.0226	0.0020	mg/Kg wet	0.02000		113	70-130	0.890	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0193	0.010	mg/Kg wet	0.02000		96.5	70-130	1.95	25	
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.02000		95.9	70-130	3.89	25	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130	1.87	25	
Vinyl Chloride	0.0164	0.010	mg/Kg wet	0.02000		82.2	40-130	5.56	25	†
m+p Xylene	0.0381	0.0040	mg/Kg wet	0.04000		95.2	70-130	1.25	25	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.02000		98.7	70-130	1.71	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0482*		mg/Kg wet	0.05000		96.4	70-130			
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.05000		98.2	70-130			
LCS Dup (B391435-BSD2)				Prepared & Analyzed: 11/05/24						
Ethanol	0.0932	0.20	mg/Kg wet	0.2000		46.6	40-160	4.79	25	J, V-05
Surrogate: 1,2-Dichloroethane-d4	*0.0497*		mg/Kg wet	0.05000		99.3	70-130			
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.05000		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/Kg wet	0.05000		96.8	70-130			
Batch B391462 - SW-846 5030B										
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
Acetone	ND	50	µg/L							V-05
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391462 - SW-846 5030B										
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.00		97.0	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.00		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391462 - SW-846 5030B											
LCS (B391462-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	79.0	50	µg/L	100.0		79.0	70-160			V-05	†
tert-Amyl Alcohol (TAA)	113	5.0	µg/L	100.0		113	70-130				
tert-Amyl Ethyl Ether (TAEE)	10.8	0.50	µg/L	10.00		108	70-130				
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.00		110	70-130				
Benzene	12.1	1.0	µg/L	10.00		121	70-130			V-20	
Bromochloromethane	12.0	1.0	µg/L	10.00		120	70-130				
Bromodichloromethane	11.5	0.50	µg/L	10.00		115	70-130				
Bromoform	10.8	1.0	µg/L	10.00		108	70-130				
Bromomethane	11.8	2.0	µg/L	10.00		118	40-160				†
2-Butanone (MEK)	96.7	20	µg/L	100.0		96.7	40-160				†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100.0		112	40-160				†
n-Butylbenzene	11.3	1.0	µg/L	10.00		113	70-130				
sec-Butylbenzene	10.9	1.0	µg/L	10.00		109	70-130				
tert-Butylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
tert-Butyl Ethyl Ether (TBEE)	11.2	0.50	µg/L	10.00		112	70-130				
Carbon Disulfide	116	5.0	µg/L	100.0		116	70-130				
Carbon Tetrachloride	12.2	5.0	µg/L	10.00		122	70-130			V-20	
Chlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
Chlorodibromomethane	11.6	0.50	µg/L	10.00		116	70-130				
Chloroethane	11.0	2.0	µg/L	10.00		110	70-130				
Chloroform	11.1	2.0	µg/L	10.00		111	70-130				
Chloromethane	10.6	2.0	µg/L	10.00		106	40-160				†
Cyclohexane	11.2	5.0	µg/L	10.00		112	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102	70-130				
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.00		120	70-130				
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130				
Dichlorodifluoromethane (Freon 12)	13.0	2.0	µg/L	10.00		130	40-160			V-20	†
1,1-Dichloroethane	11.8	1.0	µg/L	10.00		118	70-130				
1,2-Dichloroethane	10.1	1.0	µg/L	10.00		101	70-130				
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
trans-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
1,2-Dichloropropane	11.6	1.0	µg/L	10.00		116	70-130				
cis-1,3-Dichloropropene	11.5	0.50	µg/L	10.00		115	70-130				
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00		110	70-130				
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.00		110	70-130				
Ethanol	97.5	50	µg/L	100.0		97.5	40-160				
Ethylbenzene	11.6	1.0	µg/L	10.00		116	70-130				
2-Hexanone (MBK)	113	10	µg/L	100.0		113	70-160				†
Isopropylbenzene (Cumene)	11.4	1.0	µg/L	10.00		114	70-130				
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.00		109	70-130				
Methyl Acetate	11.0	1.0	µg/L	10.00		110	70-130				
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.00		112	70-130				
Methyl Cyclohexane	11.0	1.0	µg/L	10.00		110	70-130				
Methylene Chloride	10.4	5.0	µg/L	10.00		104	70-130				
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100.0		114	70-160				†
Naphthalene	10.2	2.0	µg/L	10.00		102	40-130				†
n-Propylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
Styrene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.00		119	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391462 - SW-846 5030B												
LCS (B391462-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24								
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118		70-130				
Toluene	11.8	1.0	µg/L	10.00		118		70-130				
1,2,3-Trichlorobenzene	9.91	5.0	µg/L	10.00		99.1		70-130				
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.00		104		70-130				
1,1,1-Trichloroethane	11.9	1.0	µg/L	10.00		119		70-130				
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.00		117		70-130				
Trichloroethylene	11.9	1.0	µg/L	10.00		119		70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.00		106		70-130				
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.00		114		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.00		117		70-130				
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.00		108		70-130				
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.00		110		70-130				
Vinyl Chloride	11.9	2.0	µg/L	10.00		119		40-160				†
m+p Xylene	23.0	2.0	µg/L	20.00		115		70-130				
o-Xylene	11.5	1.0	µg/L	10.00		115		70-130				
Xylenes (total)	34.5	1.0	µg/L	30.00		115		0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.00		100		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		99.8		70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.00		105		70-130				
LCS Dup (B391462-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24								
Acetone	67.4	50	µg/L	100.0		**67.4**	*	70-160	15.8	25	L-07, V-05	†
tert-Amyl Alcohol (TAA)	99.9	5.0	µg/L	100.0		99.9		70-130	12.0	25		
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106		70-130	1.87	25		
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.00		106		70-130	4.35	25		
Benzene	11.8	1.0	µg/L	10.00		118		70-130	3.10	25	V-20	
Bromochloromethane	11.4	1.0	µg/L	10.00		114		70-130	5.40	25		
Bromodichloromethane	11.1	0.50	µg/L	10.00		111		70-130	3.98	25		
Bromoform	10.2	1.0	µg/L	10.00		102		70-130	5.33	25		
Bromomethane	11.6	2.0	µg/L	10.00		116		40-160	1.96	25		†
2-Butanone (MEK)	91.0	20	µg/L	100.0		91.0		40-160	6.02	25		†
tert-Butyl Alcohol (TBA)	95.9	20	µg/L	100.0		95.9		40-160	15.5	25		†
n-Butylbenzene	10.9	1.0	µg/L	10.00		109		70-130	2.97	25		
sec-Butylbenzene	11.0	1.0	µg/L	10.00		110		70-130	0.548	25		
tert-Butylbenzene	10.7	1.0	µg/L	10.00		107		70-130	0.187	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.00		107		70-130	4.21	25		
Carbon Disulfide	116	5.0	µg/L	100.0		116		70-130	0.0172	25		
Carbon Tetrachloride	12.0	5.0	µg/L	10.00		120		70-130	1.07	25	V-20	
Chlorobenzene	11.0	1.0	µg/L	10.00		110		70-130	5.03	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.00		110		70-130	4.69	25		
Chloroethane	10.3	2.0	µg/L	10.00		103		70-130	6.31	25		
Chloroform	10.8	2.0	µg/L	10.00		108		70-130	3.11	25		
Chloromethane	10.6	2.0	µg/L	10.00		106		40-160	0.943	25		†
Cyclohexane	11.1	5.0	µg/L	10.00		111		70-130	0.897	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.29	5.0	µg/L	10.00		92.9		70-130	9.63	25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112		70-130	6.47	25		
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108		70-130	7.35	25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111		70-130	0.453	25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.00		108		70-130	1.02	25		
Dichlorodifluoromethane (Freon 12)	13.2	2.0	µg/L	10.00		132		40-160	1.98	25	V-20	†
1,1-Dichloroethane	11.8	1.0	µg/L	10.00		118		70-130	0.169	25		
1,2-Dichloroethane	10.0	1.0	µg/L	10.00		100		70-130	1.29	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391462 - SW-846 5030B										
LCS Dup (B391462-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24						
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130	3.67	25	
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130	0.338	25	
trans-1,2-Dichloroethylene	11.9	1.0	µg/L	10.00		119	70-130	1.01	25	
1,2-Dichloropropane	11.2	1.0	µg/L	10.00		112	70-130	4.12	25	
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.00		111	70-130	3.53	25	
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.00		105	70-130	4.67	25	
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.00		106	70-130	3.69	25	
Ethanol	90.4	50	µg/L	100.0		90.4	40-160	7.60	25	
Ethylbenzene	11.2	1.0	µg/L	10.00		112	70-130	3.68	25	
2-Hexanone (MBK)	105	10	µg/L	100.0		105	70-160	6.96	25	†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00		110	70-130	3.13	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.00		106	70-130	2.69	25	
Methyl Acetate	10.5	1.0	µg/L	10.00		105	70-130	5.39	25	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	70-130	7.77	25	
Methyl Cyclohexane	11.2	1.0	µg/L	10.00		112	70-130	2.25	25	
Methylene Chloride	11.7	5.0	µg/L	10.00		117	70-130	11.6	25	
4-Methyl-2-pentanone (MIBK)	107	10	µg/L	100.0		107	70-160	6.41	25	†
Naphthalene	8.93	2.0	µg/L	10.00		89.3	40-130	13.3	25	†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111	70-130	2.14	25	
Styrene	11.0	1.0	µg/L	10.00		110	70-130	2.77	25	
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.00		107	70-130	10.7	25	
Tetrachloroethylene	11.9	1.0	µg/L	10.00		119	70-130	0.591	25	
Toluene	11.8	1.0	µg/L	10.00		118	70-130	0.338	25	
1,2,3-Trichlorobenzene	9.38	5.0	µg/L	10.00		93.8	70-130	5.50	25	
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.00		98.8	70-130	4.94	25	
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00		116	70-130	2.64	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	3.11	25	
Trichloroethylene	11.3	1.0	µg/L	10.00		113	70-130	5.10	25	
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.00		101	70-130	5.70	25	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130	9.97	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.9	1.0	µg/L	10.00		119	70-130	1.02	25	
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130	3.30	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130	3.79	25	
Vinyl Chloride	11.8	2.0	µg/L	10.00		118	40-160	1.10	25	†
m+p Xylene	22.3	2.0	µg/L	20.00		112	70-130	3.13	25	
o-Xylene	11.2	1.0	µg/L	10.00		112	70-130	2.82	25	
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200	3.03		
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.00		95.6	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391435 - SW-846 5035										
Blank (B391435-BLK1)				Prepared & Analyzed: 11/05/24						
No TICs Found	0.0		mg/Kg wet							
Batch B391462 - SW-846 5030B										
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391397 - SW-846 3510C										
Blank (B391397-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04, V-05
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391397 - SW-846 3510C											
Blank (B391397-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	20	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*183*		µg/L	400.0		45.9		15-110			
Surrogate: Phenol-d6	*124*		µg/L	400.0		31.0		15-110			
Surrogate: Nitrobenzene-d5	*132*		µg/L	200.0		65.8		30-130			
Surrogate: 2-Fluorobiphenyl	*127*		µg/L	200.0		63.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*368*		µg/L	400.0		92.0		15-110			
Surrogate: p-Terphenyl-d14	*190*		µg/L	200.0		95.2		30-130			
LCS (B391397-BS1)				Prepared: 11/05/24 Analyzed: 11/07/24							
2,3,4,6-Tetrachlorophenol	80.1	20	µg/L	100.0		80.1		40-140			R-05
Atrazine	99.7	20	µg/L	100.0		99.7		40-140			
Benzaldehyde	81.2	10	µg/L	100.0		81.2		40-140			
Biphenyl	70.2	20	µg/L	100.0		70.2		40-140			
Caprolactam	26.2	10	µg/L	100.0		**26.2**	*	40-140			L-04
Acenaphthene	71.2	5.0	µg/L	100.0		71.2		40-140			
Acenaphthylene	79.8	5.0	µg/L	100.0		79.8		40-140			
Acetophenone	81.5	10	µg/L	100.0		81.5		40-140			
Aniline	78.2	20	µg/L	100.0		78.2		40-140			V-05
Anthracene	84.8	5.0	µg/L	100.0		84.8		40-140			
Benzo(a)anthracene	84.6	5.0	µg/L	100.0		84.6		40-140			
Benzo(a)pyrene	85.3	5.0	µg/L	100.0		85.3		40-140			
Benzo(b)fluoranthene	88.8	5.0	µg/L	100.0		88.8		40-140			
Benzo(g,h,i)perylene	86.1	5.0	µg/L	100.0		86.1		40-140			
Benzo(k)fluoranthene	88.2	5.0	µg/L	100.0		88.2		40-140			
Bis(2-chloroethoxy)methane	84.9	10	µg/L	100.0		84.9		40-140			
Bis(2-chloroethyl)ether	80.5	10	µg/L	100.0		80.5		40-140			
2,2'-oxybis(1-Chloropropane)	83.2	10	µg/L	100.0		83.2		40-140			
Bis(2-Ethylhexyl)phthalate	82.4	10	µg/L	100.0		82.4		40-140			
4-Bromophenylphenylether	83.3	10	µg/L	100.0		83.3		40-140			
Butylbenzylphthalate	85.2	10	µg/L	100.0		85.2		40-140			
Carbazole	85.4	10	µg/L	100.0		85.4		40-140			
4-Chloroaniline	84.9	10	µg/L	100.0		84.9		40-140			
4-Chloro-3-methylphenol	85.9	10	µg/L	100.0		85.9		30-130			
2-Chloronaphthalene	62.0	10	µg/L	100.0		62.0		40-140			
2-Chlorophenol	72.4	10	µg/L	100.0		72.4		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391397 - SW-846 3510C												
LCS (B391397-BS1)				Prepared: 11/05/24 Analyzed: 11/07/24								
4-Chlorophenylphenylether	82.9	10	µg/L	100.0		82.9		40-140				
Chrysene	81.8	5.0	µg/L	100.0		81.8		40-140				
Dibenz(a,h)anthracene	79.3	5.0	µg/L	100.0		79.3		40-140			V-04	
Dibenzofuran	82.3	5.0	µg/L	100.0		82.3		40-140				
Di-n-butylphthalate	80.4	10	µg/L	100.0		80.4		40-140				
3,3-Dichlorobenzidine	83.7	10	µg/L	100.0		83.7		40-140				
2,4-Dichlorophenol	79.5	10	µg/L	100.0		79.5		30-130				
Diethylphthalate	83.3	10	µg/L	100.0		83.3		40-140				
2,4-Dimethylphenol	76.6	10	µg/L	100.0		76.6		30-130				
Dimethylphthalate	86.9	10	µg/L	100.0		86.9		40-140				
4,6-Dinitro-2-methylphenol	57.2	20	µg/L	100.0		57.2		30-130				
2,4-Dinitrophenol	21.4	10	µg/L	100.0		**21.4**	*	30-130			L-07A, V-04, V-05	
2,4-Dinitrotoluene	90.2	10	µg/L	100.0		90.2		40-140				
2,6-Dinitrotoluene	87.8	10	µg/L	100.0		87.8		40-140				
Di-n-octylphthalate	82.4	10	µg/L	100.0		82.4		40-140			V-04	
Fluoranthene	87.0	5.0	µg/L	100.0		87.0		40-140				
Fluorene	83.0	5.0	µg/L	100.0		83.0		40-140				
Hexachlorobenzene	85.6	10	µg/L	100.0		85.6		40-140				
Hexachlorobutadiene	41.5	10	µg/L	100.0		41.5		40-140				
Hexachlorocyclopentadiene	41.8	10	µg/L	100.0		41.8		30-140				†
Hexachloroethane	36.7	10	µg/L	100.0		**36.7**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	85.7	5.0	µg/L	100.0		85.7		40-140			V-04	
Isophorone	87.5	10	µg/L	100.0		87.5		40-140				
1-Methylnaphthalene	65.5	5.0	µg/L	100.0		65.5		40-140				
2-Methylnaphthalene	64.2	5.0	µg/L	100.0		64.2		40-140				
2-Methylphenol	75.0	10	µg/L	100.0		75.0		30-130				
3/4-Methylphenol	74.6	10	µg/L	100.0		74.6		30-130				
Naphthalene	66.2	5.0	µg/L	100.0		66.2		40-140				
2-Nitroaniline	98.3	10	µg/L	100.0		98.3		40-140				
3-Nitroaniline	87.3	10	µg/L	100.0		87.3		40-140				
4-Nitroaniline	85.0	10	µg/L	100.0		85.0		40-140				
Nitrobenzene	83.4	10	µg/L	100.0		83.4		40-140				
2-Nitrophenol	74.6	10	µg/L	100.0		74.6		30-130				
4-Nitrophenol	32.0	10	µg/L	100.0		32.0		10-130				†
N-Nitrosodiphenylamine/Diphenylamine	80.8	10	µg/L	100.0		80.8		40-140				
N-Nitrosodi-n-propylamine	75.4	10	µg/L	100.0		75.4		40-140				
Pentachlorophenol	57.5	10	µg/L	100.0		57.5		30-130				
Phenanthrene	83.3	5.0	µg/L	100.0		83.3		40-140				
Phenol	42.1	10	µg/L	100.0		42.1		20-130				†
Pyrene	85.5	5.0	µg/L	100.0		85.5		40-140				
Pyridine	22.7	20	µg/L	100.0		22.7		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	65.5	10	µg/L	100.0		65.5		40-140				
2,4,5-Trichlorophenol	77.7	10	µg/L	100.0		77.7		30-130				
2,4,6-Trichlorophenol	71.6	10	µg/L	100.0		71.6		30-130				
Surrogate: 2-Fluorophenol	*246*		µg/L	400.0		61.4		15-110				
Surrogate: Phenol-d6	*196*		µg/L	400.0		49.1		15-110				
Surrogate: Nitrobenzene-d5	*182*		µg/L	200.0		90.8		30-130				
Surrogate: 2-Fluorobiphenyl	*180*		µg/L	200.0		90.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*429*		µg/L	400.0		107		15-110				
Surrogate: p-Terphenyl-d14	*200*		µg/L	200.0		99.9		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391397 - SW-846 3510C											
LCS Dup (B391397-BSD1)				Prepared: 11/05/24 Analyzed: 11/07/24							
2,3,4,6-Tetrachlorophenol	103	20	µg/L	100.0		103	40-140	**25.2** *	20	R-05	
Atrazine	101	20	µg/L	100.0		101	40-140	1.08	20		
Benzaldehyde	77.5	10	µg/L	100.0		77.5	40-140	4.67	20		
Biphenyl	75.6	20	µg/L	100.0		75.6	40-140	7.46	20		
Caprolactam	26.6	10	µg/L	100.0		**26.6** *	40-140	1.44	20	L-04	
Acenaphthene	80.2	5.0	µg/L	100.0		80.2	40-140	11.9	20		
Acenaphthylene	83.7	5.0	µg/L	100.0		83.7	40-140	4.76	20		
Acetophenone	79.7	10	µg/L	100.0		79.7	40-140	2.26	20		
Aniline	71.7	20	µg/L	100.0		71.7	40-140	8.72	50	V-05	‡
Anthracene	90.3	5.0	µg/L	100.0		90.3	40-140	6.29	20		
Benzo(a)anthracene	91.6	5.0	µg/L	100.0		91.6	40-140	7.83	20		
Benzo(a)pyrene	91.4	5.0	µg/L	100.0		91.4	40-140	7.01	20		
Benzo(b)fluoranthene	93.6	5.0	µg/L	100.0		93.6	40-140	5.19	20		
Benzo(g,h,i)perylene	91.1	5.0	µg/L	100.0		91.1	40-140	5.56	20		
Benzo(k)fluoranthene	93.9	5.0	µg/L	100.0		93.9	40-140	6.18	20		
Bis(2-chloroethoxy)methane	84.9	10	µg/L	100.0		84.9	40-140	0.0353	20		
Bis(2-chloroethyl)ether	78.9	10	µg/L	100.0		78.9	40-140	2.01	20		
2,2'-oxybis(1-Chloropropane)	81.6	10	µg/L	100.0		81.6	40-140	1.92	20		
Bis(2-Ethylhexyl)phthalate	88.3	10	µg/L	100.0		88.3	40-140	6.96	20		
4-Bromophenylphenylether	90.5	10	µg/L	100.0		90.5	40-140	8.26	20		
Butylbenzylphthalate	94.3	10	µg/L	100.0		94.3	40-140	10.2	20		
Carbazole	92.7	10	µg/L	100.0		92.7	40-140	8.26	20		
4-Chloroaniline	88.7	10	µg/L	100.0		88.7	40-140	4.41	20		
4-Chloro-3-methylphenol	91.8	10	µg/L	100.0		91.8	30-130	6.65	20		
2-Chloronaphthalene	65.8	10	µg/L	100.0		65.8	40-140	5.97	20		
2-Chlorophenol	77.4	10	µg/L	100.0		77.4	30-130	6.73	20		
4-Chlorophenylphenylether	86.9	10	µg/L	100.0		86.9	40-140	4.71	20		
Chrysene	89.9	5.0	µg/L	100.0		89.9	40-140	9.52	20		
Dibenz(a,h)anthracene	87.1	5.0	µg/L	100.0		87.1	40-140	9.35	20	V-04	
Dibenzofuran	87.4	5.0	µg/L	100.0		87.4	40-140	6.04	20		
Di-n-butylphthalate	86.5	10	µg/L	100.0		86.5	40-140	7.23	20		
3,3-Dichlorobenzidine	91.6	10	µg/L	100.0		91.6	40-140	9.06	20		
2,4-Dichlorophenol	89.0	10	µg/L	100.0		89.0	30-130	11.2	20		
Diethylphthalate	88.1	10	µg/L	100.0		88.1	40-140	5.55	20		
2,4-Dimethylphenol	77.9	10	µg/L	100.0		77.9	30-130	1.66	20		
Dimethylphthalate	91.9	10	µg/L	100.0		91.9	40-140	5.56	50		‡
4,6-Dinitro-2-methylphenol	78.6	20	µg/L	100.0		78.6	30-130	31.5	50		‡
2,4-Dinitrophenol	52.2	10	µg/L	100.0		52.2	30-130	**83.7** *	50	R-05, V-04, V-05	‡
2,4-Dinitrotoluene	97.3	10	µg/L	100.0		97.3	40-140	7.54	20		
2,6-Dinitrotoluene	97.1	10	µg/L	100.0		97.1	40-140	10.0	20		
Di-n-octylphthalate	91.2	10	µg/L	100.0		91.2	40-140	10.2	20	V-04	
Fluoranthene	93.3	5.0	µg/L	100.0		93.3	40-140	7.07	20		
Fluorene	88.4	5.0	µg/L	100.0		88.4	40-140	6.32	20		
Hexachlorobenzene	96.9	10	µg/L	100.0		96.9	40-140	12.4	20		
Hexachlorobutadiene	43.2	10	µg/L	100.0		43.2	40-140	4.13	20		
Hexachlorocyclopentadiene	46.8	10	µg/L	100.0		46.8	30-140	11.3	50		† ‡
Hexachloroethane	40.0	10	µg/L	100.0		40.0	40-140	8.40	50	L-04	‡
Indeno(1,2,3-cd)pyrene	91.1	5.0	µg/L	100.0		91.1	40-140	6.12	50	V-04	‡
Isophorone	91.0	10	µg/L	100.0		91.0	40-140	3.93	20		
1-Methylnaphthalene	68.9	5.0	µg/L	100.0		68.9	40-140	5.12	20		
2-Methylnaphthalene	67.4	5.0	µg/L	100.0		67.4	40-140	4.82	20		
2-Methylphenol	75.7	10	µg/L	100.0		75.7	30-130	0.849	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391397 - SW-846 3510C												
LCS Dup (B391397-BSD1)				Prepared: 11/05/24 Analyzed: 11/07/24								
3/4-Methylphenol	73.5	10	µg/L	100.0		73.5		30-130	1.46	20		
Naphthalene	67.3	5.0	µg/L	100.0		67.3		40-140	1.71	20		
2-Nitroaniline	99.3	10	µg/L	100.0		99.3		40-140	1.01	20		
3-Nitroaniline	89.0	10	µg/L	100.0		89.0		40-140	1.96	20		
4-Nitroaniline	83.8	10	µg/L	100.0		83.8		40-140	1.41	20		
Nitrobenzene	84.6	10	µg/L	100.0		84.6		40-140	1.40	20		
2-Nitrophenol	81.6	10	µg/L	100.0		81.6		30-130	8.96	20		
4-Nitrophenol	45.3	10	µg/L	100.0		45.3		10-130	34.2	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	89.8	10	µg/L	100.0		89.8		40-140	10.6	20		
N-Nitrosodi-n-propylamine	78.9	10	µg/L	100.0		78.9		40-140	4.55	20		
Pentachlorophenol	78.9	10	µg/L	100.0		78.9		30-130	31.5	50		‡
Phenanthrene	89.0	5.0	µg/L	100.0		89.0		40-140	6.66	20		
Phenol	43.2	10	µg/L	100.0		43.2		20-130	2.51	20		†
Pyrene	96.1	5.0	µg/L	100.0		96.1		40-140	11.7	20		
Pyridine	16.4	20	µg/L	100.0		16.4		10-140	32.2	50	J, V-34	† ‡
1,2,4,5-Tetrachlorobenzene	70.5	10	µg/L	100.0		70.5		40-140	7.38	20		
2,4,5-Trichlorophenol	91.3	10	µg/L	100.0		91.3		30-130	16.0	20		
2,4,6-Trichlorophenol	90.4	10	µg/L	100.0		90.4		30-130	23.3	50		‡
Surrogate: 2-Fluorophenol	*253*		µg/L	400.0		63.3		15-110				
Surrogate: Phenol-d6	*188*		µg/L	400.0		47.0		15-110				
Surrogate: Nitrobenzene-d5	*173*		µg/L	200.0		86.4		30-130				
Surrogate: 2-Fluorobiphenyl	*177*		µg/L	200.0		88.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*468*		µg/L	400.0		**117**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*207*		µg/L	200.0		103		30-130				
Batch B391425 - SW-846 3546												
Blank (B391425-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24								
2,3,4,6-Tetrachlorophenol	ND	0.65	mg/Kg wet									
Atrazine	ND	0.65	mg/Kg wet									
Benzaldehyde	ND	0.33	mg/Kg wet									
Biphenyl	ND	0.65	mg/Kg wet									
Caprolactam	ND	0.33	mg/Kg wet									
Acenaphthene	ND	0.17	mg/Kg wet									
Acenaphthylene	ND	0.17	mg/Kg wet									
Acetophenone	ND	0.33	mg/Kg wet									
Aniline	ND	0.33	mg/Kg wet									
Anthracene	ND	0.17	mg/Kg wet									
Benzo(a)anthracene	ND	0.17	mg/Kg wet									
Benzo(a)pyrene	ND	0.17	mg/Kg wet									
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet									
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet									
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet									
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet									
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet									
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet									
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet									
4-Bromophenylphenylether	ND	0.33	mg/Kg wet									
Butylbenzylphthalate	ND	0.33	mg/Kg wet									
Carbazole	ND	0.17	mg/Kg wet									
4-Chloroaniline	ND	0.64	mg/Kg wet									
4-Chloro-3-methylphenol	ND	0.64	mg/Kg wet									
2-Chloronaphthalene	ND	0.33	mg/Kg wet									

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391425 - SW-846 3546										
Blank (B391425-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							
3/4-Methylphenol	ND	0.33	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.33	mg/Kg wet							
3-Nitroaniline	ND	0.33	mg/Kg wet							
4-Nitroaniline	ND	0.33	mg/Kg wet							
Nitrobenzene	ND	0.33	mg/Kg wet							
2-Nitrophenol	ND	0.33	mg/Kg wet							
4-Nitrophenol	ND	0.64	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet							
Pentachlorophenol	ND	0.33	mg/Kg wet							V-05
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.33	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet							
Surrogate: 2-Fluorophenol	*4.35*		mg/Kg wet	6.504		66.9	30-130			
Surrogate: Phenol-d6	*4.60*		mg/Kg wet	6.504		70.7	30-130			
Surrogate: Nitrobenzene-d5	*2.05*		mg/Kg wet	3.252		63.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.30*		mg/Kg wet	3.252		70.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.89*		mg/Kg wet	6.504		75.2	30-130			
Surrogate: p-Terphenyl-d14	*2.56*		mg/Kg wet	3.252		78.7	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391425 - SW-846 3546												
LCS (B391425-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24								
2,3,4,6-Tetrachlorophenol	1.35	0.66	mg/Kg wet	1.647		81.7		40-140				
Atrazine	1.50	0.66	mg/Kg wet	1.647		91.2		40-140				
Benzaldehyde	1.17	0.34	mg/Kg wet	1.647		71.2		40-140			R-05	
Biphenyl	1.26	0.66	mg/Kg wet	1.647		76.3		40-140				
Caprolactam	1.66	0.34	mg/Kg wet	1.647		101		40-140				
Acenaphthene	1.16	0.17	mg/Kg wet	1.647		70.5		40-140				
Acenaphthylene	1.29	0.17	mg/Kg wet	1.647		78.1		40-140				
Acetophenone	1.20	0.34	mg/Kg wet	1.647		73.1		40-140				
Aniline	1.14	0.34	mg/Kg wet	1.647		69.1		10-140				†
Anthracene	1.29	0.17	mg/Kg wet	1.647		78.6		40-140				
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.647		72.7		40-140				
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.647		75.1		40-140				
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.647		72.4		40-140				
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.647		81.9		40-140				
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.647		76.6		40-140				
Bis(2-chloroethoxy)methane	1.35	0.34	mg/Kg wet	1.647		81.7		40-140				
Bis(2-chloroethyl)ether	1.26	0.34	mg/Kg wet	1.647		76.4		40-140				
2,2'-oxybis(1-Chloropropane)	1.55	0.34	mg/Kg wet	1.647		93.9		40-140				
Bis(2-Ethylhexyl)phthalate	1.43	0.34	mg/Kg wet	1.647		87.0		40-140				
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.647		78.6		40-140				
Butylbenzylphthalate	1.29	0.34	mg/Kg wet	1.647		78.5		40-140				
Carbazole	1.30	0.17	mg/Kg wet	1.647		79.2		40-140				
4-Chloroaniline	0.990	0.65	mg/Kg wet	1.647		60.1		10-140				†
4-Chloro-3-methylphenol	1.25	0.65	mg/Kg wet	1.647		75.9		30-130				
2-Chloronaphthalene	1.06	0.34	mg/Kg wet	1.647		64.2		40-140				
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.647		69.0		30-130				
4-Chlorophenylphenylether	1.33	0.34	mg/Kg wet	1.647		81.0		40-140				
Chrysene	1.15	0.17	mg/Kg wet	1.647		69.6		40-140				
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.647		84.7		40-140				
Dibenzofuran	1.29	0.34	mg/Kg wet	1.647		78.3		40-140				
Di-n-butylphthalate	1.43	0.34	mg/Kg wet	1.647		87.1		40-140				
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.647		61.6		20-140				†
2,4-Dichlorophenol	1.18	0.34	mg/Kg wet	1.647		71.8		30-130				
Diethylphthalate	1.31	0.34	mg/Kg wet	1.647		79.6		40-140				
2,4-Dimethylphenol	1.21	0.34	mg/Kg wet	1.647		73.4		30-130				
Dimethylphthalate	1.33	0.34	mg/Kg wet	1.647		80.9		40-140				
4,6-Dinitro-2-methylphenol	1.15	0.34	mg/Kg wet	1.647		69.7		30-130				
2,4-Dinitrophenol	0.742	0.65	mg/Kg wet	1.647		45.1		30-130			V-05	
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.647		79.1		40-140				
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.647		80.0		40-140				
Di-n-octylphthalate	1.36	0.34	mg/Kg wet	1.647		82.7		40-140				
Fluoranthene	1.33	0.17	mg/Kg wet	1.647		80.8		40-140				
Fluorene	1.28	0.17	mg/Kg wet	1.647		77.9		40-140				
Hexachlorobenzene	1.30	0.34	mg/Kg wet	1.647		78.9		40-140				
Hexachlorobutadiene	1.07	0.34	mg/Kg wet	1.647		64.8		40-140				
Hexachlorocyclopentadiene	0.478	0.34	mg/Kg wet	1.647		**29.0**	*	40-140			L-04, V-05	
Hexachloroethane	1.08	0.34	mg/Kg wet	1.647		65.4		40-140				
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.647		80.8		40-140				
Isophorone	1.33	0.34	mg/Kg wet	1.647		80.5		40-140				
1-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.647		74.2		40-140				
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.647		71.0		40-140				
2-Methylphenol	1.18	0.34	mg/Kg wet	1.647		71.8		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B391425 - SW-846 3546													
LCS (B391425-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24									
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.647		80.0		30-130					
Naphthalene	1.15	0.17	mg/Kg wet	1.647		69.5		40-140					
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.647		76.2		40-140					
3-Nitroaniline	1.16	0.34	mg/Kg wet	1.647		70.2		30-140					†
4-Nitroaniline	1.19	0.34	mg/Kg wet	1.647		72.2		40-140					
Nitrobenzene	1.12	0.34	mg/Kg wet	1.647		67.8		40-140					
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.647		69.1		30-130					
4-Nitrophenol	1.16	0.65	mg/Kg wet	1.647		70.4		30-130					
N-Nitrosodiphenylamine/Diphenylamine	1.33	0.34	mg/Kg wet	1.647		80.8		40-140					
N-Nitrosodi-n-propylamine	1.36	0.34	mg/Kg wet	1.647		82.7		40-140					
Pentachlorophenol	0.915	0.34	mg/Kg wet	1.647		55.5		30-130				V-05	
Phenanthrene	1.27	0.17	mg/Kg wet	1.647		77.3		40-140					
Phenol	1.26	0.34	mg/Kg wet	1.647		76.4		30-130					
Pyrene	1.24	0.17	mg/Kg wet	1.647		75.5		40-140					
Pyridine	0.391	0.34	mg/Kg wet	1.647		**23.8**	*	30-140				L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.647		66.0		40-140					
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.647		75.7		30-130					
2,4,6-Trichlorophenol	1.18	0.34	mg/Kg wet	1.647		71.8		30-130					
Surrogate: 2-Fluorophenol	*5.22*		mg/Kg wet	6.588		79.2		30-130					
Surrogate: Phenol-d6	*5.44*		mg/Kg wet	6.588		82.5		30-130					
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.294		70.6		30-130					
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg wet	3.294		81.6		30-130					
Surrogate: 2,4,6-Tribromophenol	*5.66*		mg/Kg wet	6.588		85.9		30-130					
Surrogate: p-Terphenyl-d14	*2.82*		mg/Kg wet	3.294		85.5		30-130					
LCS Dup (B391425-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24									
2,3,4,6-Tetrachlorophenol	1.36	0.66	mg/Kg wet	1.652		82.6		40-140	1.39		20		
Atrazine	1.49	0.66	mg/Kg wet	1.652		90.5		40-140	0.474		30		
Benzaldehyde	0.887	0.34	mg/Kg wet	1.652		53.7		40-140	**27.7**	*	20	R-05	
Biphenyl	1.21	0.66	mg/Kg wet	1.652		73.0		40-140	4.10		20		
Caprolactam	1.65	0.34	mg/Kg wet	1.652		100		40-140	0.559		20		
Acenaphthene	1.12	0.17	mg/Kg wet	1.652		67.8		40-140	3.55		30		
Acenaphthylene	1.24	0.17	mg/Kg wet	1.652		75.0		40-140	3.78		30		
Acetophenone	1.07	0.34	mg/Kg wet	1.652		64.6		40-140	12.0		30		
Aniline	1.11	0.34	mg/Kg wet	1.652		67.0		10-140	2.76		50		† ‡
Anthracene	1.26	0.17	mg/Kg wet	1.652		76.5		40-140	2.44		30		
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.652		71.8		40-140	1.00		30		
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.652		73.8		40-140	1.40		30		
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.652		71.1		40-140	1.54		30		
Benzo(g,h,i)perylene	1.34	0.17	mg/Kg wet	1.652		80.9		40-140	1.03		30		
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.652		76.0		40-140	0.463		30		
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.652		76.5		40-140	6.38		30		
Bis(2-chloroethyl)ether	1.00	0.34	mg/Kg wet	1.652		60.8		40-140	22.3		30		
2,2'-oxybis(1-Chloropropane)	1.26	0.34	mg/Kg wet	1.652		76.3		40-140	20.4		30		
Bis(2-Ethylhexyl)phthalate	1.42	0.34	mg/Kg wet	1.652		86.0		40-140	0.928		30		
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.652		76.5		40-140	2.39		30		
Butylbenzylphthalate	1.28	0.34	mg/Kg wet	1.652		77.4		40-140	1.22		30		
Carbazole	1.30	0.17	mg/Kg wet	1.652		78.4		40-140	0.668		30		
4-Chloroaniline	1.12	0.65	mg/Kg wet	1.652		67.7		10-140	12.1		30		†
4-Chloro-3-methylphenol	1.24	0.65	mg/Kg wet	1.652		74.9		30-130	1.00		30		
2-Chloronaphthalene	1.03	0.34	mg/Kg wet	1.652		62.2		40-140	2.96		30		
2-Chlorophenol	0.982	0.34	mg/Kg wet	1.652		59.4		30-130	14.5		30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391425 - SW-846 3546												
LCS Dup (B391425-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24								
4-Chlorophenylphenylether	1.31	0.34	mg/Kg wet	1.652		79.6		40-140	1.47	30		
Chrysene	1.14	0.17	mg/Kg wet	1.652		69.3		40-140	0.221	30		
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.652		84.1		40-140	0.438	30		
Dibenzofuran	1.26	0.34	mg/Kg wet	1.652		76.5		40-140	2.08	30		
Di-n-butylphthalate	1.42	0.34	mg/Kg wet	1.652		85.7		40-140	1.28	30		
3,3-Dichlorobenzidine	1.22	0.17	mg/Kg wet	1.652		73.7		20-140	18.2	50		† ‡
2,4-Dichlorophenol	1.14	0.34	mg/Kg wet	1.652		69.1		30-130	3.51	30		
Diethylphthalate	1.30	0.34	mg/Kg wet	1.652		78.9		40-140	0.511	30		
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.652		69.4		30-130	5.28	30		
Dimethylphthalate	1.31	0.34	mg/Kg wet	1.652		79.3		40-140	1.63	30		
4,6-Dinitro-2-methylphenol	1.13	0.34	mg/Kg wet	1.652		68.6		30-130	1.35	30		
2,4-Dinitrophenol	0.754	0.65	mg/Kg wet	1.652		45.7		30-130	1.58	30	V-05	
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.652		78.7		40-140	0.159	30		
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.652		78.6		40-140	1.39	30		
Di-n-octylphthalate	1.33	0.34	mg/Kg wet	1.652		80.6		40-140	2.23	30		
Fluoranthene	1.32	0.17	mg/Kg wet	1.652		79.8		40-140	0.874	30		
Fluorene	1.26	0.17	mg/Kg wet	1.652		76.1		40-140	2.12	30		
Hexachlorobenzene	1.27	0.34	mg/Kg wet	1.652		76.8		40-140	2.35	30		
Hexachlorobutadiene	0.870	0.34	mg/Kg wet	1.652		52.7		40-140	20.3	30		
Hexachlorocyclopentadiene	0.402	0.34	mg/Kg wet	1.652		**24.3**	*	40-140	17.4	30	L-04, V-05	
Hexachloroethane	0.847	0.34	mg/Kg wet	1.652		51.3		40-140	23.9	30		
Indeno(1,2,3-cd)pyrene	1.71	0.17	mg/Kg wet	1.652		104		40-140	25.0	30		
Isophorone	1.27	0.34	mg/Kg wet	1.652		76.6		40-140	4.62	30		
1-Methylnaphthalene	1.15	0.17	mg/Kg wet	1.652		69.4		40-140	6.33	30		
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.652		66.7		40-140	5.92	30		
2-Methylphenol	1.10	0.34	mg/Kg wet	1.652		66.8		30-130	6.92	30		
3/4-Methylphenol	1.25	0.34	mg/Kg wet	1.652		75.6		30-130	5.36	30		
Naphthalene	1.02	0.17	mg/Kg wet	1.652		61.6		40-140	11.9	30		
2-Nitroaniline	1.24	0.34	mg/Kg wet	1.652		75.0		40-140	1.21	30		
3-Nitroaniline	1.24	0.34	mg/Kg wet	1.652		75.1		30-140	7.04	30		†
4-Nitroaniline	1.22	0.34	mg/Kg wet	1.652		73.6		40-140	2.19	30		
Nitrobenzene	0.993	0.34	mg/Kg wet	1.652		60.1		40-140	11.7	30		
2-Nitrophenol	1.01	0.34	mg/Kg wet	1.652		61.0		30-130	12.2	30		
4-Nitrophenol	1.16	0.65	mg/Kg wet	1.652		69.9		30-130	0.387	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.31	0.34	mg/Kg wet	1.652		79.4		40-140	1.45	30		
N-Nitrosodi-n-propylamine	1.27	0.34	mg/Kg wet	1.652		76.7		40-140	7.24	30		
Pentachlorophenol	0.890	0.34	mg/Kg wet	1.652		53.9		30-130	2.74	30	V-05	
Phenanthrene	1.26	0.17	mg/Kg wet	1.652		76.5		40-140	0.691	30		
Phenol	1.15	0.34	mg/Kg wet	1.652		69.9		30-130	8.56	30		
Pyrene	1.22	0.17	mg/Kg wet	1.652		74.1		40-140	1.60	30		
Pyridine	0.302	0.34	mg/Kg wet	1.652		**18.3**	*	30-140	25.8	30	J, L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.02	0.34	mg/Kg wet	1.652		62.0		40-140	5.92	30		
2,4,5-Trichlorophenol	1.21	0.34	mg/Kg wet	1.652		73.2		30-130	3.09	30		
2,4,6-Trichlorophenol	1.15	0.34	mg/Kg wet	1.652		69.6		30-130	2.90	30		
Surrogate: 2-Fluorophenol	*4.30*		mg/Kg wet	6.607		65.1		30-130				
Surrogate: Phenol-d6	*5.01*		mg/Kg wet	6.607		75.9		30-130				
Surrogate: Nitrobenzene-d5	*2.06*		mg/Kg wet	3.304		62.3		30-130				
Surrogate: 2-Fluorobiphenyl	*2.57*		mg/Kg wet	3.304		77.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.60*		mg/Kg wet	6.607		84.8		30-130				
Surrogate: p-Terphenyl-d14	*2.79*		mg/Kg wet	3.304		84.3		30-130				

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391403 - SW-846 3510C										
Blank (B391403-BLK1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.69*		µg/L	10.00		26.9	15-110			
LCS (B391403-BS1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	10.1	0.20	µg/L	10.00		101	40-140			
Surrogate: 1,4-Dioxane-d8	*2.37*		µg/L	10.00		23.7	15-110			
LCS Dup (B391403-BSD1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	11.2	0.20	µg/L	10.00		112	40-140	10.2	30	
Surrogate: 1,4-Dioxane-d8	*2.60*		µg/L	10.00		26.0	15-110			
Batch B391934 - SW-846 3546										
Blank (B391934-BLK1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	ND	0.049	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.209*		mg/Kg wet	0.4943		42.3	15-110			
LCS (B391934-BS1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	0.523	0.049	mg/Kg wet	0.4936		106	40-140			
Surrogate: 1,4-Dioxane-d8	*0.230*		mg/Kg wet	0.4936		46.6	15-110			
LCS Dup (B391934-BSD1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	0.568	0.049	mg/Kg wet	0.4929		115	40-140	8.34	30	
Surrogate: 1,4-Dioxane-d8	*0.225*		mg/Kg wet	0.4929		45.7	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392725 - EPA 1633										
Blank (B392725-BLK1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	ND	6.2	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.2	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.2	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*89.0*		ng/L	77.84		114	5-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392725 - EPA 1633										
Blank (B392725-BLK1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Surrogate: 13C5-PFPeA	*45.3*		ng/L	38.92		117	40-130			
Surrogate: 13C5-PFHxA	*22.3*		ng/L	19.46		114	40-130			
Surrogate: 13C4-PFHpA	*21.1*		ng/L	19.46		109	40-130			
Surrogate: 13C8-PFOA	*23.6*		ng/L	19.46		122	40-130			
Surrogate: 13C9-PFNA	*11.5*		ng/L	9.730		118	40-130			
Surrogate: 13C6-PFDA	*11.6*		ng/L	9.730		120	40-130			
Surrogate: 13C7-PFUnA	*11.5*		ng/L	9.730		118	30-130			
Surrogate: 13C2-PFDoA	*10.9*		ng/L	9.730		113	10-130			
Surrogate: 13C2-PFTeDA	*8.95*		ng/L	9.730		92.0	10-130			
Surrogate: 13C3-PFBS	*22.4*		ng/L	19.46		115	40-135			
Surrogate: 13C3-PFHxS	*21.6*		ng/L	19.46		111	40-130			
Surrogate: 13C8-PFOS	*22.2*		ng/L	19.46		114	40-130			
Surrogate: 13C2-4:2FTS	*50.0*		ng/L	38.92		128	40-200			
Surrogate: 13C2-6:2FTS	*44.6*		ng/L	38.92		115	40-200			
Surrogate: 13C2-8:2FTS	*47.6*		ng/L	38.92		122	40-300			
Surrogate: 13C8-PFOSA	*17.6*		ng/L	19.46		90.6	40-130			
Surrogate: D3-NMeFOSA	*11.7*		ng/L	19.46		60.0	10-130			
Surrogate: D5-NEtFOSA	*11.2*		ng/L	19.46		57.6	10-130			
Surrogate: D3-NMeFOSAA	*36.1*		ng/L	38.92		92.9	40-170			
Surrogate: D5-NEtFOSAA	*38.8*		ng/L	38.92		99.6	25-135			
Surrogate: D7-NMeFOSE	*171*		ng/L	194.6		87.6	10-130			
Surrogate: D9-NEtFOSE	*166*		ng/L	194.6		85.1	10-130			
Surrogate: 13C3-HFPO-DA	*88.6*		ng/L	77.84		114	40-130			
LCS (B392725-BS1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	58.5	6.4	ng/L	79.41		73.6	70-140			
Perfluoropentanoic acid (PFPeA)	31.4	3.2	ng/L	39.70		79.1	65-135			
Perfluorohexanoic acid (PFHxA)	15.7	1.6	ng/L	19.85		79.2	70-145			
Perfluoroheptanoic acid (PFHpA)	14.7	1.6	ng/L	19.85		74.0	70-150			
Perfluorooctanoic acid (PFOA)	15.2	1.6	ng/L	19.85		76.5	70-150			
Perfluorononanoic acid (PFNA)	15.5	1.6	ng/L	19.85		78.1	70-150			
Perfluorodecanoic acid (PFDA)	15.9	1.6	ng/L	19.85		80.2	70-140			
Perfluoroundecanoic acid (PFUnA)	15.7	1.6	ng/L	19.85		78.9	70-145			
Perfluorododecanoic acid (PFDoA)	14.8	1.6	ng/L	19.85		74.7	70-140			
Perfluorotridecanoic acid (PFTrDA)	13.8	1.6	ng/L	19.85		69.4	65-140			
Perfluorotetradecanoic acid (PFTeDA)	15.4	1.6	ng/L	19.85		77.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	13.3	1.6	ng/L	17.63		75.2	60-145			
Perfluoropentanesulfonic acid (PFPeS)	13.7	1.6	ng/L	18.66		73.4	65-140			
Perfluorohexanesulfonic acid (PFHxS)	12.4	1.6	ng/L	18.10		68.3	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	15.0	1.6	ng/L	18.90		79.2	70-150			
Perfluorooctanesulfonic acid (PFOS)	14.4	1.6	ng/L	18.42		78.0	55-150			
Perfluorononanesulfonic acid (PFNS)	14.7	1.6	ng/L	19.06		77.2	65-145			
Perfluorodecanesulfonic acid (PFDS)	13.2	1.6	ng/L	19.14		68.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	12.6	1.6	ng/L	19.22		65.7	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	63.7	6.4	ng/L	74.40		85.7	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	59.1	6.4	ng/L	75.52		78.3	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	61.1	6.4	ng/L	76.23		80.1	60-150			
Perfluorooctanesulfonamide (PFOSA)	14.3	1.6	ng/L	19.85		72.2	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	15.6	1.6	ng/L	19.85		78.7	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392725 - EPA 1633										
LCS (B392725-BS1)				Prepared: 11/25/24 Analyzed: 11/27/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	16.2	1.6	ng/L	19.85		81.8	65-145			
N-MeFOSAA (NMeFOSAA)	13.9	1.6	ng/L	19.85		70.1	50-140			
N-EtFOSAA (NEtFOSAA)	14.0	1.6	ng/L	19.85		70.7	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	150	16	ng/L	198.5		75.5	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	151	16	ng/L	198.5		76.0	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	60.8	6.4	ng/L	79.41		76.6	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	58.8	6.4	ng/L	75.04		78.3	65-145			
9Cl-PF3ONS (F53B Minor)	55.8	6.4	ng/L	74.09		75.3	70-155			
11Cl-PF3OUdS (F53B Major)	55.3	6.4	ng/L	74.17		74.6	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	67.3	7.9	ng/L	99.26		67.8	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	361	40	ng/L	496.3		72.7	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	348	40	ng/L	496.3		70.2	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	29.2	3.2	ng/L	35.42		82.4	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	27.8	3.2	ng/L	39.70		69.9	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	30.6	3.2	ng/L	39.70		77.1	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	33.1	3.2	ng/L	39.70		83.3	50-150			
Surrogate: 13C4-PFBA	*81.4*		ng/L	79.41		103	5-130			
Surrogate: 13C5-PFPeA	*41.1*		ng/L	39.70		103	40-130			
Surrogate: 13C5-PFHxA	*20.2*		ng/L	19.85		102	40-130			
Surrogate: 13C4-PFHpA	*19.2*		ng/L	19.85		96.9	40-130			
Surrogate: 13C8-PFOA	*21.5*		ng/L	19.85		108	40-130			
Surrogate: 13C9-PFNA	*10.0*		ng/L	9.926		101	40-130			
Surrogate: 13C6-PFDA	*9.68*		ng/L	9.926		97.5	40-130			
Surrogate: 13C7-PFUnA	*9.95*		ng/L	9.926		100	30-130			
Surrogate: 13C2-PFDoA	*9.83*		ng/L	9.926		99.0	10-130			
Surrogate: 13C2-PFTeDA	*8.54*		ng/L	9.926		86.1	10-130			
Surrogate: 13C3-PFBS	*20.3*		ng/L	19.85		102	40-135			
Surrogate: 13C3-PFHxS	*21.4*		ng/L	19.85		108	40-130			
Surrogate: 13C8-PFOS	*20.4*		ng/L	19.85		103	40-130			
Surrogate: 13C2-4:2FTS	*43.1*		ng/L	39.70		109	40-200			
Surrogate: 13C2-6:2FTS	*38.2*		ng/L	39.70		96.1	40-200			
Surrogate: 13C2-8:2FTS	*41.4*		ng/L	39.70		104	40-300			
Surrogate: 13C8-PFOSA	*17.2*		ng/L	19.85		86.7	40-130			
Surrogate: D3-NMeFOSA	*10.5*		ng/L	19.85		53.0	10-130			
Surrogate: D5-NEtFOSA	*10.6*		ng/L	19.85		53.3	10-130			
Surrogate: D3-NMeFOSAA	*36.5*		ng/L	39.70		91.9	40-170			
Surrogate: D5-NEtFOSAA	*36.2*		ng/L	39.70		91.2	25-135			
Surrogate: D7-NMeFOSE	*165*		ng/L	198.5		83.0	10-130			
Surrogate: D9-NEtFOSE	*161*		ng/L	198.5		81.2	10-130			
Surrogate: 13C3-HFPO-DA	*80.9*		ng/L	79.41		102	40-130			
MRL Check (B392725-MRL1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	4.72	6.2	ng/L	6.236		75.7	70-140			J
Perfluoropentanoic acid (PFPeA)	2.42	3.1	ng/L	3.118		77.6	65-135			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392725 - EPA 1633										
MRL Check (B392725-MRL1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Perfluorohexanoic acid (PFHxA)	1.23	1.6	ng/L	1.559		78.9	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.24	1.6	ng/L	1.559		79.3	70-150			J
Perfluorooctanoic acid (PFOA)	1.20	1.6	ng/L	1.559		76.7	70-150			J
Perfluorononanoic acid (PFNA)	1.22	1.6	ng/L	1.559		78.4	70-150			J
Perfluorodecanoic acid (PFDA)	1.11	1.6	ng/L	1.559		71.2	70-140			J
Perfluoroundecanoic acid (PFUnA)	1.34	1.6	ng/L	1.559		86.0	70-145			J
Perfluorododecanoic acid (PFDoA)	1.26	1.6	ng/L	1.559		80.9	70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.08	1.6	ng/L	1.559		69.5	65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.14	1.6	ng/L	1.559		73.0	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.07	1.6	ng/L	1.384		77.0	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.13	1.6	ng/L	1.465		77.4	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.37	1.6	ng/L	1.422		96.2	65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.30	1.6	ng/L	1.484		87.8	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.27	1.6	ng/L	1.447		88.1	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.12	1.6	ng/L	1.497		75.0	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.12	1.6	ng/L	1.503		74.4	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.07	1.6	ng/L	1.509		71.0	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	4.83	6.2	ng/L	5.843		82.7	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	4.56	6.2	ng/L	5.930		76.9	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	4.65	6.2	ng/L	5.987		77.6	60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.21	1.6	ng/L	1.559		77.7	70-145			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.20	1.6	ng/L	1.559		77.1	60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.45	1.6	ng/L	1.559		93.3	65-145			J
N-MeFOSAA (NMeFOSAA)	1.14	1.6	ng/L	1.559		73.3	50-140			J
N-EtFOSAA (NEtFOSAA)	1.28	1.6	ng/L	1.559		82.0	70-145			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	11.4	16	ng/L	15.59		73.2	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	11.8	16	ng/L	15.59		76.0	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.46	6.2	ng/L	6.236		87.5	70-140			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.06	6.2	ng/L	5.893		85.8	65-145			J
9Cl-PF3ONS (F53B Minor)	4.38	6.2	ng/L	5.818		75.3	70-155			J
11Cl-PF3OUdS (F53B Major)	4.33	6.2	ng/L	5.881		73.6	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.23	7.8	ng/L	7.795		67.1	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	29.4	39	ng/L	38.97		75.3	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	27.9	39	ng/L	38.97		71.7	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.25	3.1	ng/L	2.781		81.0	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.33	3.1	ng/L	3.118		74.8	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.49	3.1	ng/L	3.118		79.8	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.37	3.1	ng/L	3.118		76.0	50-150			J
Surrogate: 13C4-PFBA	*81.2*		ng/L	77.95		104	5-130			
Surrogate: 13C5-PFPeA	*40.3*		ng/L	38.97		103	40-130			
Surrogate: 13C5-PFHxA	*20.4*		ng/L	19.49		105	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392725 - EPA 1633										
MRL Check (B392725-MRL1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Surrogate: 13C4-PFHpA	*18.4*		ng/L	19.49		94.6	40-130			
Surrogate: 13C8-PFOA	*21.1*		ng/L	19.49		108	40-130			
Surrogate: 13C9-PFNA	*9.90*		ng/L	9.744		102	40-130			
Surrogate: 13C6-PFDA	*10.2*		ng/L	9.744		104	40-130			
Surrogate: 13C7-PFUnA	*9.97*		ng/L	9.744		102	30-130			
Surrogate: 13C2-PFDoA	*10.6*		ng/L	9.744		109	10-130			
Surrogate: 13C2-PFTeDA	*9.02*		ng/L	9.744		92.6	10-130			
Surrogate: 13C3-PFBS	*20.6*		ng/L	19.49		105	40-135			
Surrogate: 13C3-PFHxS	*21.1*		ng/L	19.49		108	40-130			
Surrogate: 13C8-PFOS	*20.5*		ng/L	19.49		105	40-130			
Surrogate: 13C2-4:2FTS	*45.7*		ng/L	38.97		117	40-200			
Surrogate: 13C2-6:2FTS	*38.3*		ng/L	38.97		98.2	40-200			
Surrogate: 13C2-8:2FTS	*40.6*		ng/L	38.97		104	40-300			
Surrogate: 13C8-PFOSA	*15.1*		ng/L	19.49		77.6	40-130			
Surrogate: D3-NMeFOSA	*10.4*		ng/L	19.49		53.2	10-130			
Surrogate: D5-NEtFOSA	*9.93*		ng/L	19.49		51.0	10-130			
Surrogate: D3-NMeFOSAA	*34.4*		ng/L	38.97		88.1	40-170			
Surrogate: D5-NEtFOSAA	*35.8*		ng/L	38.97		91.9	25-135			
Surrogate: D7-NMeFOSE	*144*		ng/L	194.9		73.7	10-130			
Surrogate: D9-NEtFOSE	*138*		ng/L	194.9		70.9	10-130			
Surrogate: 13C3-HFPO-DA	*79.9*		ng/L	77.95		103	40-130			
Batch B393181 - EPA 1633										
Blank (B393181-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393181 - EPA 1633										
Blank (B393181-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*6.31*		µg/kg wet	7.756		81.3	8-130			
Surrogate: 13C5-PFPeA	*3.53*		µg/kg wet	3.878		90.9	35-130			
Surrogate: 13C5-PFHxA	*1.70*		µg/kg wet	1.939		87.6	40-130			
Surrogate: 13C4-PFHpA	*1.63*		µg/kg wet	1.939		84.2	40-130			
Surrogate: 13C8-PFOA	*1.74*		µg/kg wet	1.939		89.9	40-130			
Surrogate: 13C9-PFNA	*0.851*		µg/kg wet	0.9696		87.8	40-130			
Surrogate: 13C6-PFDA	*0.833*		µg/kg wet	0.9696		85.9	40-130			
Surrogate: 13C7-PFUnA	*0.818*		µg/kg wet	0.9696		84.3	40-130			
Surrogate: 13C2-PFDoA	*0.881*		µg/kg wet	0.9696		90.9	40-130			
Surrogate: 13C2-PFTeDA	*0.887*		µg/kg wet	0.9696		91.5	20-130			
Surrogate: 13C3-PFBS	*1.71*		µg/kg wet	1.939		88.3	40-135			
Surrogate: 13C3-PFHxS	*1.74*		µg/kg wet	1.939		89.5	40-130			
Surrogate: 13C8-PFOS	*1.63*		µg/kg wet	1.939		84.1	40-130			
Surrogate: 13C2-4:2FTS	*4.25*		µg/kg wet	3.878		110	40-165			
Surrogate: 13C2-6:2FTS	*3.43*		µg/kg wet	3.878		88.5	40-215			
Surrogate: 13C2-8:2FTS	*3.72*		µg/kg wet	3.878		96.0	40-275			
Surrogate: 13C8-PFOSA	*1.48*		µg/kg wet	1.939		76.3	40-130			
Surrogate: D3-NMeFOSA	*1.27*		µg/kg wet	1.939		65.3	10-130			
Surrogate: D5-NEtFOSA	*1.30*		µg/kg wet	1.939		67.2	10-130			
Surrogate: D3-NMeFOSAA	*2.57*		µg/kg wet	3.878		66.2	40-135			
Surrogate: D5-NEtFOSAA	*2.62*		µg/kg wet	3.878		67.5	40-150			
Surrogate: D7-NMeFOSE	*16.8*		µg/kg wet	19.39		86.8	20-130			
Surrogate: D9-NEtFOSE	*17.9*		µg/kg wet	19.39		92.1	15-130			
Surrogate: 13C3-HFPO-DA	*7.05*		µg/kg wet	7.756		90.9	40-130			
LCS (B393181-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	7.52	0.77	µg/kg wet	7.710		97.6	70-140			
Perfluoropentanoic acid (PFPeA)	3.89	0.39	µg/kg wet	3.855		101	60-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393181 - EPA 1633										
LCS (B393181-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorohexanoic acid (PFHxA)	1.99	0.19	µg/kg wet	1.928		103	65-140			
Perfluoroheptanoic acid (PFHpA)	1.92	0.19	µg/kg wet	1.928		99.7	65-145			
Perfluorooctanoic acid (PFOA)	1.97	0.19	µg/kg wet	1.928		102	70-150			
Perfluorononanoic acid (PFNA)	1.90	0.19	µg/kg wet	1.928		98.5	70-155			
Perfluorodecanoic acid (PFDA)	2.07	0.19	µg/kg wet	1.928		107	70-155			
Perfluoroundecanoic acid (PFUnA)	2.00	0.19	µg/kg wet	1.928		104	70-155			
Perfluorododecanoic acid (PFDoA)	2.03	0.19	µg/kg wet	1.928		105	70-150			
Perfluorotridecanoic acid (PFTrDA)	1.98	0.19	µg/kg wet	1.928		103	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.09	0.19	µg/kg wet	1.928		108	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.65	0.19	µg/kg wet	1.712		96.2	65-145			
Perfluoropentanesulfonic acid (PFPeS)	1.74	0.19	µg/kg wet	1.812		96.0	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.71	0.19	µg/kg wet	1.758		97.4	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.76	0.19	µg/kg wet	1.835		95.7	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.61	0.19	µg/kg wet	1.789		90.2	65-160			
Perfluorononanesulfonic acid (PFNS)	1.78	0.19	µg/kg wet	1.850		96.4	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.79	0.19	µg/kg wet	1.858		96.2	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.79	0.19	µg/kg wet	1.866		96.2	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.29	0.77	µg/kg wet	7.224		115	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.78	0.77	µg/kg wet	7.332		106	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.66	0.77	µg/kg wet	7.402		103	70-150			
Perfluorooctanesulfonamide (PFOSA)	1.89	0.19	µg/kg wet	1.928		98.2	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.10	0.19	µg/kg wet	1.928		109	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.12	0.19	µg/kg wet	1.928		110	70-140			
N-MeFOSAA (NMeFOSAA)	1.98	0.19	µg/kg wet	1.928		103	65-155			
N-EtFOSAA (NEtFOSAA)	1.89	0.19	µg/kg wet	1.928		98.0	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.9	1.9	µg/kg wet	19.28		103	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.0	1.9	µg/kg wet	19.28		98.4	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.89	0.77	µg/kg wet	7.710		102	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.59	0.77	µg/kg wet	7.286		104	70-160			
9Cl-PF3ONS (F53B Minor)	6.96	0.77	µg/kg wet	7.194		96.8	70-150			
11Cl-PF3OUdS (F53B Major)	7.18	0.77	µg/kg wet	7.201		99.6	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.01	0.96	µg/kg wet	9.638		52.0	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	45.7	4.8	µg/kg wet	48.19		94.9	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	45.8	4.8	µg/kg wet	48.19		95.1	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.67	0.39	µg/kg wet	3.439		107	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.65	0.39	µg/kg wet	3.855		94.8	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.79	0.39	µg/kg wet	3.855		98.4	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.14	0.39	µg/kg wet	3.855		107	60-155			
Surrogate: 13C4-PFBA	*6.44*		µg/kg wet	7.710		83.6	8-130			
Surrogate: 13C5-PFPeA	*3.56*		µg/kg wet	3.855		92.4	35-130			
Surrogate: 13C5-PFHxA	*1.71*		µg/kg wet	1.928		88.7	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393181 - EPA 1633										
LCS (B393181-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Surrogate: 13C4-PFHpA	*1.65*		µg/kg wet	1.928		85.6	40-130			
Surrogate: 13C8-PFOA	*1.91*		µg/kg wet	1.928		98.9	40-130			
Surrogate: 13C9-PFNA	*0.916*		µg/kg wet	0.9638		95.1	40-130			
Surrogate: 13C6-PFDA	*0.847*		µg/kg wet	0.9638		87.9	40-130			
Surrogate: 13C7-PFUnA	*0.906*		µg/kg wet	0.9638		94.0	40-130			
Surrogate: 13C2-PFDoA	*0.923*		µg/kg wet	0.9638		95.8	40-130			
Surrogate: 13C2-PFTeDA	*0.906*		µg/kg wet	0.9638		94.0	20-130			
Surrogate: 13C3-PFBS	*1.76*		µg/kg wet	1.928		91.3	40-135			
Surrogate: 13C3-PFHxS	*1.74*		µg/kg wet	1.928		90.2	40-130			
Surrogate: 13C8-PFOS	*1.83*		µg/kg wet	1.928		94.7	40-130			
Surrogate: 13C2-4:2FTS	*3.66*		µg/kg wet	3.855		94.8	40-165			
Surrogate: 13C2-6:2FTS	*3.29*		µg/kg wet	3.855		85.2	40-215			
Surrogate: 13C2-8:2FTS	*3.41*		µg/kg wet	3.855		88.5	40-275			
Surrogate: 13C8-PFOSA	*1.48*		µg/kg wet	1.928		76.9	40-130			
Surrogate: D3-NMeFOSA	*1.26*		µg/kg wet	1.928		65.6	10-130			
Surrogate: D5-NEtFOSA	*1.30*		µg/kg wet	1.928		67.4	10-130			
Surrogate: D3-NMeFOSAA	*2.95*		µg/kg wet	3.855		76.4	40-135			
Surrogate: D5-NEtFOSAA	*3.16*		µg/kg wet	3.855		82.1	40-150			
Surrogate: D7-NMeFOSE	*15.9*		µg/kg wet	19.28		82.7	20-130			
Surrogate: D9-NEtFOSE	*17.1*		µg/kg wet	19.28		88.5	15-130			
Surrogate: 13C3-HFPO-DA	*7.03*		µg/kg wet	7.710		91.1	40-130			
MRL Check (B393181-MRL1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	0.930	0.80	µg/kg wet	0.7998		116	70-140			
Perfluoropentanoic acid (PFPeA)	0.453	0.40	µg/kg wet	0.3999		113	60-150			
Perfluorohexanoic acid (PFHxA)	0.239	0.20	µg/kg wet	0.2000		120	65-140			
Perfluoroheptanoic acid (PFHpA)	0.223	0.20	µg/kg wet	0.2000		112	65-145			
Perfluorooctanoic acid (PFOA)	0.236	0.20	µg/kg wet	0.2000		118	70-150			
Perfluorononanoic acid (PFNA)	0.237	0.20	µg/kg wet	0.2000		119	70-155			
Perfluorodecanoic acid (PFDA)	0.225	0.20	µg/kg wet	0.2000		112	70-155			
Perfluoroundecanoic acid (PFUnA)	0.248	0.20	µg/kg wet	0.2000		124	70-155			
Perfluorododecanoic acid (PFDoA)	0.233	0.20	µg/kg wet	0.2000		117	70-150			
Perfluorotridecanoic acid (PFTrDA)	0.227	0.20	µg/kg wet	0.2000		114	65-150			
Perfluorotetradecanoic acid (PFTeDA)	0.229	0.20	µg/kg wet	0.2000		115	65-150			
Perfluorobutanesulfonic acid (PFBS)	0.190	0.20	µg/kg wet	0.1776		107	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.194	0.20	µg/kg wet	0.1880		103	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.202	0.20	µg/kg wet	0.1824		111	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	0.259	0.20	µg/kg wet	0.1904		136	65-155			
Perfluorooctanesulfonic acid (PFOS)	0.205	0.20	µg/kg wet	0.1856		111	65-160			
Perfluorononanesulfonic acid (PFNS)	0.202	0.20	µg/kg wet	0.1920		105	55-140			
Perfluorodecanesulfonic acid (PFDS)	0.233	0.20	µg/kg wet	0.1928		121	40-155			
Perfluorododecanesulfonic acid (PFDoS)	0.225	0.20	µg/kg wet	0.1936		116	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.873	0.80	µg/kg wet	0.7495		117	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.896	0.80	µg/kg wet	0.7606		118	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.05	0.80	µg/kg wet	0.7678		137	70-150			
Perfluorooctanesulfonamide (PFOSA)	0.216	0.20	µg/kg wet	0.2000		108	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.230	0.20	µg/kg wet	0.2000		115	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.235	0.20	µg/kg wet	0.2000		117	70-140			
N-MeFOSAA (NMeFOSAA)	0.262	0.20	µg/kg wet	0.2000		131	65-155			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393181 - EPA 1633										
MRL Check (B393181-MRL1)				Prepared: 11/26/24 Analyzed: 11/27/24						
N-EtFOSAA (NEtFOSAA)	0.209	0.20	µg/kg wet	0.2000		105	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	2.23	2.0	µg/kg wet	2.000		112	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	2.19	2.0	µg/kg wet	2.000		109	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.936	0.80	µg/kg wet	0.7998		117	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.935	0.80	µg/kg wet	0.7558		124	70-160			
9Cl-PF3ONS (F53B Minor)	0.857	0.80	µg/kg wet	0.7463		115	70-150			
11Cl-PF3OUdS (F53B Major)	0.868	0.80	µg/kg wet	0.7542		115	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.558	1.0	µg/kg wet	0.9998		55.8	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	5.13	5.0	µg/kg wet	4.999		103	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	5.18	5.0	µg/kg wet	4.999		104	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.430	0.40	µg/kg wet	0.3567		121	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.460	0.40	µg/kg wet	0.3999		115	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.478	0.40	µg/kg wet	0.3999		119	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.479	0.40	µg/kg wet	0.3999		120	60-155			
Surrogate: 13C4-PFBA	*4.45*		µg/kg wet	7.998		55.7	8-130			
Surrogate: 13C5-PFPeA	*2.57*		µg/kg wet	3.999		64.2	35-130			
Surrogate: 13C5-PFHxA	*1.23*		µg/kg wet	2.000		61.5	40-130			
Surrogate: 13C4-PFHpA	*1.21*		µg/kg wet	2.000		60.6	40-130			
Surrogate: 13C8-PFOA	*1.28*		µg/kg wet	2.000		63.8	40-130			
Surrogate: 13C9-PFNA	*0.618*		µg/kg wet	0.9998		61.9	40-130			
Surrogate: 13C6-PFDA	*0.650*		µg/kg wet	0.9998		65.0	40-130			
Surrogate: 13C7-PFUnA	*0.659*		µg/kg wet	0.9998		65.9	40-130			
Surrogate: 13C2-PFDoA	*0.697*		µg/kg wet	0.9998		69.7	40-130			
Surrogate: 13C2-PFTeDA	*0.693*		µg/kg wet	0.9998		69.3	20-130			
Surrogate: 13C3-PFBS	*1.29*		µg/kg wet	2.000		64.3	40-135			
Surrogate: 13C3-PFHxS	*1.32*		µg/kg wet	2.000		65.9	40-130			
Surrogate: 13C8-PFOS	*1.25*		µg/kg wet	2.000		62.7	40-130			
Surrogate: 13C2-4:2FTS	*3.11*		µg/kg wet	3.999		77.7	40-165			
Surrogate: 13C2-6:2FTS	*2.65*		µg/kg wet	3.999		66.2	40-215			
Surrogate: 13C2-8:2FTS	*2.72*		µg/kg wet	3.999		67.9	40-275			
Surrogate: 13C8-PFOSA	*1.07*		µg/kg wet	2.000		53.4	40-130			
Surrogate: D3-NMeFOSA	*1.01*		µg/kg wet	2.000		50.6	10-130			
Surrogate: D5-NEtFOSA	*0.985*		µg/kg wet	2.000		49.3	10-130			
Surrogate: D3-NMeFOSAA	*2.13*		µg/kg wet	3.999		53.3	40-135			
Surrogate: D5-NEtFOSAA	*2.25*		µg/kg wet	3.999		56.2	40-150			
Surrogate: D7-NMeFOSE	*12.0*		µg/kg wet	20.00		60.1	20-130			
Surrogate: D9-NEtFOSE	*13.1*		µg/kg wet	20.00		65.7	15-130			
Surrogate: 13C3-HFPO-DA	*5.03*		µg/kg wet	7.998		62.9	40-130			

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391397 - SW-846 3510C										
Blank (B391397-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24						
No TICs Found	0.0		µg/L							
Batch B391425 - SW-846 3546										
Blank (B391425-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
Heptane, 2,3-dimethyl-	0.38		mg/Kg wet							B
Octane, 3-methyl-	0.47		mg/Kg wet							B

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391389 - SW-846 3510C										
Blank (B391389-BLK1)				Prepared: 11/05/24 Analyzed: 11/08/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*2.57*		µg/L	4.000		64.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.58*		µg/L	4.000		64.5	30-150			
Surrogate: Tetrachloro-m-xylene	*2.11*		µg/L	4.000		52.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.17*		µg/L	4.000		54.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391389 - SW-846 3510C										
LCS (B391389-BS1)				Prepared: 11/05/24 Analyzed: 11/08/24						
alpha-Chlordane	1.5	0.050	µg/L	2.000		76.0	0-200			
alpha-Chlordane [2C]	1.5	0.050	µg/L	2.000		75.8	0-200			
gamma-Chlordane	1.5	0.050	µg/L	2.000		74.8	0-200			
gamma-Chlordane [2C]	1.6	0.050	µg/L	2.000		78.1	0-200			
Aldrin	1.2	0.050	µg/L	2.000		60.6	40-140			
Aldrin [2C]	1.3	0.050	µg/L	2.000		63.9	40-140			
alpha-BHC	1.5	0.050	µg/L	2.000		73.5	40-140			
alpha-BHC [2C]	1.5	0.050	µg/L	2.000		73.9	40-140			
beta-BHC	1.5	0.050	µg/L	2.000		76.7	40-140			
beta-BHC [2C]	1.6	0.050	µg/L	2.000		80.1	40-140			
delta-BHC	1.4	0.050	µg/L	2.000		67.6	40-140			
delta-BHC [2C]	1.4	0.050	µg/L	2.000		70.3	40-140			
gamma-BHC (Lindane)	1.5	0.030	µg/L	2.000		72.8	40-140			
gamma-BHC (Lindane) [2C]	1.5	0.030	µg/L	2.000		76.4	40-140			
4,4'-DDD	1.6	0.040	µg/L	2.000		79.6	40-140			
4,4'-DDD [2C]	1.6	0.040	µg/L	2.000		81.9	40-140			
4,4'-DDE	1.6	0.040	µg/L	2.000		77.7	40-140			
4,4'-DDE [2C]	1.6	0.040	µg/L	2.000		80.2	40-140			
4,4'-DDT	1.6	0.040	µg/L	2.000		78.5	40-140			
4,4'-DDT [2C]	1.7	0.040	µg/L	2.000		83.6	40-140			
Dieldrin	1.5	0.0020	µg/L	2.000		77.0	40-140			
Dieldrin [2C]	1.6	0.0020	µg/L	2.000		81.5	40-140			
Endosulfan I	1.5	0.050	µg/L	2.000		74.3	40-140			
Endosulfan I [2C]	1.6	0.050	µg/L	2.000		78.7	40-140			
Endosulfan II	1.6	0.080	µg/L	2.000		78.0	40-140			
Endosulfan II [2C]	1.6	0.080	µg/L	2.000		80.5	40-140			
Endosulfan Sulfate	1.5	0.080	µg/L	2.000		74.8	40-140			
Endosulfan Sulfate [2C]	1.5	0.080	µg/L	2.000		77.3	40-140			
Endrin	1.6	0.080	µg/L	2.000		79.5	40-140			
Endrin [2C]	1.6	0.080	µg/L	2.000		81.5	40-140			
Endrin Aldehyde	1.4	0.080	µg/L	2.000		68.4	40-140			
Endrin Aldehyde [2C]	1.4	0.080	µg/L	2.000		70.5	40-140			
Endrin Ketone	1.5	0.080	µg/L	2.000		75.8	40-140			
Endrin Ketone [2C]	1.6	0.080	µg/L	2.000		77.9	40-140			
Heptachlor	1.4	0.050	µg/L	2.000		67.7	40-140			
Heptachlor [2C]	1.4	0.050	µg/L	2.000		70.8	40-140			
Heptachlor Epoxide	1.5	0.050	µg/L	2.000		74.7	40-140			
Heptachlor Epoxide [2C]	1.6	0.050	µg/L	2.000		77.7	40-140			
Methoxychlor	1.6	0.50	µg/L	2.000		77.6	40-140			
Methoxychlor [2C]	1.6	0.50	µg/L	2.000		78.0	40-140			
Surrogate: Decachlorobiphenyl	*2.73*		µg/L	4.000		68.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.72*		µg/L	4.000		68.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.21*		µg/L	4.000		55.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.27*		µg/L	4.000		56.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391389 - SW-846 3510C										
LCS Dup (B391389-BSD1)				Prepared: 11/05/24 Analyzed: 11/08/24						
alpha-Chlordane	1.7	0.050	µg/L	2.000		83.4	0-200	9.35		
alpha-Chlordane [2C]	1.7	0.050	µg/L	2.000		84.4	0-200	10.8		
gamma-Chlordane	1.6	0.050	µg/L	2.000		81.0	0-200	7.93		
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		86.0	0-200	9.71		
Aldrin	1.4	0.050	µg/L	2.000		69.1	40-140	13.1	20	
Aldrin [2C]	1.5	0.050	µg/L	2.000		72.8	40-140	13.1	20	
alpha-BHC	1.7	0.050	µg/L	2.000		86.4	40-140	16.1	20	
alpha-BHC [2C]	1.7	0.050	µg/L	2.000		86.2	40-140	15.3	20	
beta-BHC	1.7	0.050	µg/L	2.000		86.1	40-140	11.5	20	
beta-BHC [2C]	1.8	0.050	µg/L	2.000		91.3	40-140	13.0	20	
delta-BHC	1.5	0.050	µg/L	2.000		75.4	40-140	11.0	20	
delta-BHC [2C]	1.6	0.050	µg/L	2.000		77.5	40-140	9.85	20	
gamma-BHC (Lindane)	1.6	0.030	µg/L	2.000		82.0	40-140	11.9	20	
gamma-BHC (Lindane) [2C]	1.7	0.030	µg/L	2.000		87.1	40-140	13.1	20	
4,4'-DDD	1.7	0.040	µg/L	2.000		85.1	40-140	6.62	20	
4,4'-DDD [2C]	1.8	0.040	µg/L	2.000		91.0	40-140	10.4	20	
4,4'-DDE	1.7	0.040	µg/L	2.000		85.9	40-140	10.0	20	
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		85.2	40-140	5.98	20	
4,4'-DDT	1.7	0.040	µg/L	2.000		86.0	40-140	9.16	20	
4,4'-DDT [2C]	1.8	0.040	µg/L	2.000		91.0	40-140	8.48	20	
Dieldrin	1.7	0.0020	µg/L	2.000		85.0	40-140	9.84	20	
Dieldrin [2C]	1.8	0.0020	µg/L	2.000		90.3	40-140	10.3	20	
Endosulfan I	1.6	0.050	µg/L	2.000		82.0	40-140	9.84	20	
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		87.3	40-140	10.3	20	
Endosulfan II	1.7	0.080	µg/L	2.000		85.7	40-140	9.44	20	
Endosulfan II [2C]	1.8	0.080	µg/L	2.000		88.8	40-140	9.81	20	
Endosulfan Sulfate	1.7	0.080	µg/L	2.000		82.7	40-140	9.95	20	
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.000		85.5	40-140	10.1	20	
Endrin	1.8	0.080	µg/L	2.000		87.9	40-140	9.99	20	
Endrin [2C]	1.8	0.080	µg/L	2.000		91.5	40-140	11.5	20	
Endrin Aldehyde	1.5	0.080	µg/L	2.000		75.5	40-140	9.86	20	
Endrin Aldehyde [2C]	1.6	0.080	µg/L	2.000		78.5	40-140	10.7	20	
Endrin Ketone	1.7	0.080	µg/L	2.000		83.6	40-140	9.74	20	
Endrin Ketone [2C]	1.7	0.080	µg/L	2.000		85.6	40-140	9.43	20	
Heptachlor	1.5	0.050	µg/L	2.000		74.6	40-140	9.80	20	
Heptachlor [2C]	1.6	0.050	µg/L	2.000		78.7	40-140	10.5	20	
Heptachlor Epoxide	1.6	0.050	µg/L	2.000		82.4	40-140	9.81	20	
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		85.9	40-140	9.93	20	
Methoxychlor	1.7	0.50	µg/L	2.000		85.7	40-140	9.86	20	
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		86.1	40-140	9.90	20	
Surrogate: Decachlorobiphenyl	*2.36*		µg/L	4.000		58.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.55*		µg/L	4.000		63.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.24*		µg/L	4.000		55.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.30*		µg/L	4.000		57.5	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
Blank (B392152-BLK1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	ND	0.0046	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0046	mg/Kg wet							
gamma-Chlordane	ND	0.0046	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0046	mg/Kg wet							
Aldrin	ND	0.0046	mg/Kg wet							
Aldrin [2C]	ND	0.0046	mg/Kg wet							
alpha-BHC	ND	0.0046	mg/Kg wet							
alpha-BHC [2C]	ND	0.0046	mg/Kg wet							
beta-BHC	ND	0.0046	mg/Kg wet							
beta-BHC [2C]	ND	0.0046	mg/Kg wet							
delta-BHC	ND	0.0046	mg/Kg wet							
delta-BHC [2C]	ND	0.0046	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0018	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0018	mg/Kg wet							
4,4'-DDD	ND	0.0037	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDE	ND	0.0037	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDT	ND	0.0037	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0037	mg/Kg wet							
Dieldrin	ND	0.0037	mg/Kg wet							
Dieldrin [2C]	ND	0.0037	mg/Kg wet							
Endosulfan I	ND	0.0046	mg/Kg wet							
Endosulfan I [2C]	ND	0.0046	mg/Kg wet							
Endosulfan II	ND	0.0074	mg/Kg wet							
Endosulfan II [2C]	ND	0.0074	mg/Kg wet							
Endosulfan Sulfate	ND	0.0074	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0074	mg/Kg wet							
Endrin	ND	0.0074	mg/Kg wet							
Endrin [2C]	ND	0.0074	mg/Kg wet							
Endrin Aldehyde	ND	0.0074	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0074	mg/Kg wet							
Endrin Ketone	ND	0.0074	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0074	mg/Kg wet							
Heptachlor	ND	0.0046	mg/Kg wet							
Heptachlor [2C]	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0046	mg/Kg wet							
Methoxychlor	ND	0.046	mg/Kg wet							
Methoxychlor [2C]	ND	0.046	mg/Kg wet							
Toxaphene	ND	0.092	mg/Kg wet							
Toxaphene [2C]	ND	0.092	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.1840		82.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.147*		mg/Kg wet	0.1840		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.129*		mg/Kg wet	0.1840		70.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.135*		mg/Kg wet	0.1840		73.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
LCS (B392152-BS1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	0.074	0.0046	mg/Kg wet	0.09208		80.7	40-140			
alpha-Chlordane [2C]	0.080	0.0046	mg/Kg wet	0.09208		86.8	40-140			
gamma-Chlordane	0.081	0.0046	mg/Kg wet	0.09208		88.3	40-140			
gamma-Chlordane [2C]	0.079	0.0046	mg/Kg wet	0.09208		85.8	40-140			
Aldrin	0.074	0.0046	mg/Kg wet	0.09208		79.9	40-140			
Aldrin [2C]	0.078	0.0046	mg/Kg wet	0.09208		85.0	40-140			
alpha-BHC	0.075	0.0046	mg/Kg wet	0.09208		81.8	40-140			
alpha-BHC [2C]	0.078	0.0046	mg/Kg wet	0.09208		85.2	40-140			
beta-BHC	0.070	0.0046	mg/Kg wet	0.09208		75.8	40-140			
beta-BHC [2C]	0.074	0.0046	mg/Kg wet	0.09208		80.1	40-140			
delta-BHC	0.073	0.0046	mg/Kg wet	0.09208		79.0	40-140			
delta-BHC [2C]	0.074	0.0046	mg/Kg wet	0.09208		80.3	40-140			
gamma-BHC (Lindane)	0.071	0.0018	mg/Kg wet	0.09208		77.1	40-140			
gamma-BHC (Lindane) [2C]	0.075	0.0018	mg/Kg wet	0.09208		81.0	40-140			
4,4'-DDD	0.082	0.0037	mg/Kg wet	0.09208		88.9	40-140			
4,4'-DDD [2C]	0.084	0.0037	mg/Kg wet	0.09208		91.5	40-140			
4,4'-DDE	0.080	0.0037	mg/Kg wet	0.09208		87.1	40-140			
4,4'-DDE [2C]	0.084	0.0037	mg/Kg wet	0.09208		91.2	40-140			
4,4'-DDT	0.082	0.0037	mg/Kg wet	0.09208		89.1	40-140			
4,4'-DDT [2C]	0.084	0.0037	mg/Kg wet	0.09208		90.8	40-140			
Dieldrin	0.078	0.0037	mg/Kg wet	0.09208		84.5	40-140			
Dieldrin [2C]	0.083	0.0037	mg/Kg wet	0.09208		90.0	40-140			
Endosulfan I	0.074	0.0046	mg/Kg wet	0.09208		80.7	40-140			
Endosulfan I [2C]	0.081	0.0046	mg/Kg wet	0.09208		87.8	40-140			
Endosulfan II	0.075	0.0074	mg/Kg wet	0.09208		81.0	40-140			
Endosulfan II [2C]	0.080	0.0074	mg/Kg wet	0.09208		86.9	40-140			
Endosulfan Sulfate	0.068	0.0074	mg/Kg wet	0.09208		73.4	40-140			
Endosulfan Sulfate [2C]	0.076	0.0074	mg/Kg wet	0.09208		82.4	40-140			
Endrin	0.085	0.0074	mg/Kg wet	0.09208		92.2	40-140			
Endrin [2C]	0.084	0.0074	mg/Kg wet	0.09208		91.2	40-140			
Endrin Aldehyde	0.063	0.0074	mg/Kg wet	0.09208		68.3	40-140			
Endrin Aldehyde [2C]	0.070	0.0074	mg/Kg wet	0.09208		76.0	40-140			
Endrin Ketone	0.073	0.0074	mg/Kg wet	0.09208		79.1	40-140			
Endrin Ketone [2C]	0.072	0.0074	mg/Kg wet	0.09208		78.4	40-140			
Heptachlor	0.078	0.0046	mg/Kg wet	0.09208		84.8	40-140			
Heptachlor [2C]	0.081	0.0046	mg/Kg wet	0.09208		88.4	40-140			
Heptachlor Epoxide	0.076	0.0046	mg/Kg wet	0.09208		82.0	40-140			
Heptachlor Epoxide [2C]	0.079	0.0046	mg/Kg wet	0.09208		85.7	40-140			
Methoxychlor	0.082	0.046	mg/Kg wet	0.09208		88.6	40-140			
Methoxychlor [2C]	0.084	0.046	mg/Kg wet	0.09208		91.6	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1842		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.1842		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg wet	0.1842		75.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.1842		77.5	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
LCS Dup (B392152-BSD1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	0.079	0.0046	mg/Kg wet	0.09191		85.8	40-140	5.92	30	
alpha-Chlordane [2C]	0.085	0.0046	mg/Kg wet	0.09191		92.2	40-140	5.86	30	
gamma-Chlordane	0.083	0.0046	mg/Kg wet	0.09191		90.3	40-140	2.13	30	
gamma-Chlordane [2C]	0.084	0.0046	mg/Kg wet	0.09191		91.2	40-140	5.92	30	
Aldrin	0.077	0.0046	mg/Kg wet	0.09191		84.3	40-140	5.24	30	
Aldrin [2C]	0.083	0.0046	mg/Kg wet	0.09191		89.8	40-140	5.30	30	
alpha-BHC	0.080	0.0046	mg/Kg wet	0.09191		86.6	40-140	5.45	30	
alpha-BHC [2C]	0.082	0.0046	mg/Kg wet	0.09191		89.0	40-140	4.19	30	
beta-BHC	0.072	0.0046	mg/Kg wet	0.09191		78.1	40-140	2.88	30	
beta-BHC [2C]	0.077	0.0046	mg/Kg wet	0.09191		84.0	40-140	4.55	30	
delta-BHC	0.078	0.0046	mg/Kg wet	0.09191		84.9	40-140	7.02	30	
delta-BHC [2C]	0.080	0.0046	mg/Kg wet	0.09191		86.6	40-140	7.40	30	
gamma-BHC (Lindane)	0.075	0.0018	mg/Kg wet	0.09191		81.9	40-140	5.84	30	
gamma-BHC (Lindane) [2C]	0.079	0.0018	mg/Kg wet	0.09191		86.2	40-140	6.03	30	
4,4'-DDD	0.086	0.0037	mg/Kg wet	0.09191		93.7	40-140	5.07	30	
4,4'-DDD [2C]	0.089	0.0037	mg/Kg wet	0.09191		96.9	40-140	5.56	30	
4,4'-DDE	0.085	0.0037	mg/Kg wet	0.09191		92.6	40-140	5.86	30	
4,4'-DDE [2C]	0.089	0.0037	mg/Kg wet	0.09191		96.5	40-140	5.44	30	
4,4'-DDT	0.086	0.0037	mg/Kg wet	0.09191		93.1	40-140	4.22	30	
4,4'-DDT [2C]	0.086	0.0037	mg/Kg wet	0.09191		93.5	40-140	2.74	30	
Dieldrin	0.082	0.0037	mg/Kg wet	0.09191		89.3	40-140	5.24	30	
Dieldrin [2C]	0.088	0.0037	mg/Kg wet	0.09191		95.4	40-140	5.73	30	
Endosulfan I	0.079	0.0046	mg/Kg wet	0.09191		86.4	40-140	6.54	30	
Endosulfan I [2C]	0.086	0.0046	mg/Kg wet	0.09191		93.5	40-140	6.17	30	
Endosulfan II	0.079	0.0074	mg/Kg wet	0.09191		85.5	40-140	5.22	30	
Endosulfan II [2C]	0.085	0.0074	mg/Kg wet	0.09191		92.5	40-140	6.03	30	
Endosulfan Sulfate	0.073	0.0074	mg/Kg wet	0.09191		79.2	40-140	7.40	30	
Endosulfan Sulfate [2C]	0.082	0.0074	mg/Kg wet	0.09191		89.1	40-140	7.67	30	
Endrin	0.089	0.0074	mg/Kg wet	0.09191		97.3	40-140	5.23	30	
Endrin [2C]	0.088	0.0074	mg/Kg wet	0.09191		96.2	40-140	5.15	30	
Endrin Aldehyde	0.063	0.0074	mg/Kg wet	0.09191		68.8	40-140	0.510	30	
Endrin Aldehyde [2C]	0.072	0.0074	mg/Kg wet	0.09191		78.7	40-140	3.30	30	
Endrin Ketone	0.077	0.0074	mg/Kg wet	0.09191		83.3	40-140	4.92	30	
Endrin Ketone [2C]	0.076	0.0074	mg/Kg wet	0.09191		82.5	40-140	4.83	30	
Heptachlor	0.082	0.0046	mg/Kg wet	0.09191		89.5	40-140	5.28	30	
Heptachlor [2C]	0.086	0.0046	mg/Kg wet	0.09191		93.8	40-140	5.74	30	
Heptachlor Epoxide	0.080	0.0046	mg/Kg wet	0.09191		87.0	40-140	5.68	30	
Heptachlor Epoxide [2C]	0.084	0.0046	mg/Kg wet	0.09191		91.1	40-140	5.95	30	
Methoxychlor	0.085	0.046	mg/Kg wet	0.09191		92.0	40-140	3.57	30	
Methoxychlor [2C]	0.089	0.046	mg/Kg wet	0.09191		96.5	40-140	5.06	30	
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.1838		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.1838		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.144*		mg/Kg wet	0.1838		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.1838		80.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391391 - SW-846 3510C										
Blank (B391391-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*3.26*		µg/L	4.000		81.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.18*		µg/L	4.000		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.18*		µg/L	4.000		54.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.14*		µg/L	4.000		53.6	30-150			
LCS (B391391-BS1)				Prepared: 11/05/24 Analyzed: 11/07/24						
Aroclor-1016	0.86	0.20	µg/L	1.000		85.6	40-140			
Aroclor-1016 [2C]	0.85	0.20	µg/L	1.000		85.1	40-140			
Aroclor-1260	1.1	0.20	µg/L	1.000		115	40-140			
Aroclor-1260 [2C]	1.1	0.20	µg/L	1.000		110	40-140			
Surrogate: Decachlorobiphenyl	*3.43*		µg/L	4.000		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	4.000		83.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.37*		µg/L	4.000		59.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.33*		µg/L	4.000		58.4	30-150			
LCS Dup (B391391-BSD1)				Prepared: 11/05/24 Analyzed: 11/07/24						
Aroclor-1016	0.96	0.20	µg/L	1.000		96.0	40-140	11.4	20	
Aroclor-1016 [2C]	0.89	0.20	µg/L	1.000		89.3	40-140	4.81	20	
Aroclor-1260	1.1	0.20	µg/L	1.000		114	40-140	0.294	20	
Aroclor-1260 [2C]	1.1	0.20	µg/L	1.000		113	40-140	2.58	20	
Surrogate: Decachlorobiphenyl	*2.20*		µg/L	4.000		54.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.18*		µg/L	4.000		54.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.39*		µg/L	4.000		59.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.34*		µg/L	4.000		58.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391688 - SW-846 3546										
Blank (B391688-BLK1)				Prepared: 11/08/24 Analyzed: 11/14/24						
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.0990*		mg/Kg wet	0.1880		52.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0923*		mg/Kg wet	0.1880		49.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.123*		mg/Kg wet	0.1880		65.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.122*		mg/Kg wet	0.1880		64.8	30-150			
LCS (B391688-BS1)				Prepared: 11/08/24 Analyzed: 11/14/24						
Aroclor-1016	0.099	0.019	mg/Kg wet	0.1881		52.7	40-140			
Aroclor-1016 [2C]	0.093	0.019	mg/Kg wet	0.1881		49.2	40-140			
Aroclor-1260	0.10	0.019	mg/Kg wet	0.1881		54.2	40-140			
Aroclor-1260 [2C]	0.094	0.019	mg/Kg wet	0.1881		49.8	40-140			
Surrogate: Decachlorobiphenyl	*0.0759*		mg/Kg wet	0.1881		40.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0706*		mg/Kg wet	0.1881		37.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.107*		mg/Kg wet	0.1881		56.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.106*		mg/Kg wet	0.1881		56.4	30-150			
LCS Dup (B391688-BSD1)				Prepared: 11/08/24 Analyzed: 11/14/24						
Aroclor-1016	0.089	0.019	mg/Kg wet	0.1880		47.5	40-140	10.4	30	
Aroclor-1016 [2C]	0.083	0.019	mg/Kg wet	0.1880		44.4	40-140	10.2	30	
Aroclor-1260	0.094	0.019	mg/Kg wet	0.1880		49.8	40-140	8.33	30	
Aroclor-1260 [2C]	0.086	0.019	mg/Kg wet	0.1880		45.7	40-140	8.59	30	
Surrogate: Decachlorobiphenyl	*0.0712*		mg/Kg wet	0.1880		37.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0663*		mg/Kg wet	0.1880		35.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.0945*		mg/Kg wet	0.1880		50.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0937*		mg/Kg wet	0.1880		49.9	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A										
Blank (B391602-BLK1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Sodium	ND	2.0	mg/L							
Blank (B391602-BLK2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	ND	0.010	mg/L							
Cadmium	ND	0.0040	mg/L							
Lead	ND	0.010	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B391602-BS1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	0.528	0.050	mg/L	0.5000		106	80-120			
Antimony	0.534	0.050	mg/L	0.5000		107	80-120			
Barium	0.511	0.050	mg/L	0.5000		102	80-120			
Beryllium	0.552	0.0040	mg/L	0.5000		110	80-120			
Calcium	4.27	0.50	mg/L	4.000		107	80-120			
Chromium	0.534	0.010	mg/L	0.5000		107	80-120			
Cobalt	0.541	0.010	mg/L	0.5000		108	80-120			
Copper	1.07	0.010	mg/L	1.000		107	80-120			
Iron	4.30	0.050	mg/L	4.000		107	80-120			
Magnesium	4.10	0.050	mg/L	4.000		103	80-120			
Manganese	0.530	0.010	mg/L	0.5000		106	80-120			
Nickel	0.525	0.010	mg/L	0.5000		105	80-120			
Potassium	4.18	2.0	mg/L	4.000		105	80-120			
Selenium	0.527	0.050	mg/L	0.5000		105	80-120			
Sodium	4.17	2.0	mg/L	4.000		104	80-120			
LCS (B391602-BS2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	0.515	0.010	mg/L	0.5000		103	80-120			
Cadmium	0.552	0.0040	mg/L	0.5000		110	80-120			
Lead	0.551	0.010	mg/L	0.5000		110	80-120			
Silver	0.579	0.010	mg/L	0.5000		116	80-120			
Thallium	0.522	0.050	mg/L	0.5000		104	80-120			
Vanadium	0.543	0.010	mg/L	0.5000		109	80-120			
Zinc	1.12	0.010	mg/L	1.000		112	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A										
LCS Dup (B391602-BSD1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	0.511	0.050	mg/L	0.5000		102	80-120	3.34	30	
Antimony	0.525	0.050	mg/L	0.5000		105	80-120	1.72	20	
Barium	0.504	0.050	mg/L	0.5000		101	80-120	1.28	20	
Beryllium	0.541	0.0040	mg/L	0.5000		108	80-120	1.96	20	
Calcium	4.15	0.50	mg/L	4.000		104	80-120	2.85	20	
Chromium	0.530	0.010	mg/L	0.5000		106	80-120	0.861	20	
Cobalt	0.537	0.010	mg/L	0.5000		107	80-120	0.703	20	
Copper	1.05	0.010	mg/L	1.000		105	80-120	1.58	20	
Iron	4.17	0.050	mg/L	4.000		104	80-120	2.90	20	
Magnesium	4.05	0.050	mg/L	4.000		101	80-120	1.37	20	
Manganese	0.514	0.010	mg/L	0.5000		103	80-120	2.92	20	
Nickel	0.522	0.010	mg/L	0.5000		104	80-120	0.516	30	
Potassium	4.11	2.0	mg/L	4.000		103	80-120	1.79	20	
Selenium	0.519	0.050	mg/L	0.5000		104	80-120	1.54	20	
Sodium	4.08	2.0	mg/L	4.000		102	80-120	2.17	20	
LCS Dup (B391602-BSD2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	0.475	0.010	mg/L	0.5000		95.0	80-120	8.05	20	
Cadmium	0.499	0.0040	mg/L	0.5000		99.7	80-120	10.1	20	
Lead	0.507	0.010	mg/L	0.5000		101	80-120	8.33	20	
Silver	0.523	0.010	mg/L	0.5000		105	80-120	10.1	20	
Thallium	0.462	0.050	mg/L	0.5000		92.3	80-120	12.3	20	
Vanadium	0.488	0.010	mg/L	0.5000		97.7	80-120	10.5	20	
Zinc	1.02	0.010	mg/L	1.000		102	80-120	9.78	20	
Dilution Check (B391602-SRL1)		**Source: 24K0186-12**		Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Calcium	38.8	2.5	mg/L		39.1			0.714	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.284	0.25	mg/L		0.270			5.24	20	
Magnesium	59.2	0.25	mg/L		58.9			0.474	20	
Manganese	0.0267	0.050	mg/L		0.0251			6.06	20	J
Nickel	ND	0.050	mg/L		ND				20	
Potassium	19.2	10	mg/L		19.3			0.288	20	
Selenium	ND	0.25	mg/L		ND				20	
Dilution Check (B391602-SRL2)		**Source: 24K0395-01**		Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	38.1	0.25	mg/L		37.4			1.83	20	
Magnesium	59.8	0.25	mg/L		60.3			0.712	20	
Manganese	1.62	0.050	mg/L		1.58			2.29	20	
Nickel	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A										
Dilution Check (B391602-SRL2)		**Source: 24K0395-01**		Prepared: 11/06/24 Analyzed: 11/07/24						
Potassium	11.6	10	mg/L		11.7			0.254	20	
Selenium	ND	0.25	mg/L		ND				20	
Sodium	246	10	mg/L		246			0.0753	20	
Batch B391603 - SW-846 3050B										
Blank (B391603-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	ND	16	mg/Kg wet							
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.2	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.32	mg/Kg wet							
Calcium	ND	16	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
Cobalt	ND	1.6	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	16	mg/Kg wet							
Lead	ND	0.48	mg/Kg wet							
Magnesium	ND	16	mg/Kg wet							
Manganese	ND	0.32	mg/Kg wet							
Nickel	ND	0.64	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							
Zinc	ND	0.64	mg/Kg wet							
Blank (B391603-BLK2)				Prepared: 11/06/24 Analyzed: 11/11/24						
Potassium	ND	160	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							
LCS (B391603-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	5230	50	mg/Kg wet	5940		88.1	46.1-153.9			
Antimony	92.5	5.0	mg/Kg wet	121.0		76.4	2.1-200.8			
Arsenic	224	9.9	mg/Kg wet	242.0		92.7	81.8-118.6			
Barium	296	5.0	mg/Kg wet	295.0		100	81.7-118.3			
Beryllium	159	0.50	mg/Kg wet	160.0		99.5	82.5-117.5			
Cadmium	82.7	0.99	mg/Kg wet	84.30		98.1	82.2-117.8			
Calcium	5170	50	mg/Kg wet	5270		98.1	82.5-117.5			
Chromium	215	2.0	mg/Kg wet	213.0		101	81.2-119.2			
Cobalt	135	5.0	mg/Kg wet	137.0		98.2	83.2-117.5			
Copper	207	4.0	mg/Kg wet	195.0		106	83.1-116.9			
Iron	6790	50	mg/Kg wet	6650		102	58.6-141.5			
Lead	190	1.5	mg/Kg wet	194.0		97.7	82-118.6			
Magnesium	1730	50	mg/Kg wet	1860		93.0	75.3-124.2			
Manganese	287	0.99	mg/Kg wet	264.0		109	80.7-118.9			
Nickel	293	2.0	mg/Kg wet	298.0		98.3	82.2-117.8			
Selenium	258	9.9	mg/Kg wet	272.0		94.7	80.1-119.5			
Sodium	402	500	mg/Kg wet	406.0		99.0	74.9-124.9			J
Thallium	107	5.0	mg/Kg wet	108.0		99.3	80-119.4			
Vanadium	177	2.0	mg/Kg wet	169.0		105	78.1-122.5			
Zinc	225	2.0	mg/Kg wet	236.0		95.3	80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B											
LCS (B391603-BS2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	1990	500	mg/Kg wet	2010		99.2		70.6-129.4			
Silver	76.8	0.99	mg/Kg wet	76.70		100		79.5-120.5			
LCS Dup (B391603-BSD1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5220	50	mg/Kg wet	5940		88.0		46.1-153.9	0.130	30	
Antimony	97.7	5.0	mg/Kg wet	121.0		80.7		2.1-200.8	5.48	30	
Arsenic	231	9.9	mg/Kg wet	242.0		95.4		81.8-118.6	2.80	30	
Barium	326	5.0	mg/Kg wet	295.0		110		81.7-118.3	9.54	20	
Beryllium	161	0.50	mg/Kg wet	160.0		101		82.5-117.5	1.16	30	
Cadmium	85.0	0.99	mg/Kg wet	84.30		101		82.2-117.8	2.77	20	
Calcium	5300	50	mg/Kg wet	5270		101		82.5-117.5	2.46	30	
Chromium	224	2.0	mg/Kg wet	213.0		105		81.2-119.2	4.41	30	
Cobalt	138	5.0	mg/Kg wet	137.0		101		83.2-117.5	2.46	20	
Copper	210	4.0	mg/Kg wet	195.0		108		83.1-116.9	1.66	30	
Iron	6210	50	mg/Kg wet	6650		93.3		58.6-141.5	8.96	30	
Lead	191	1.5	mg/Kg wet	194.0		98.5		82-118.6	0.813	30	
Magnesium	1730	50	mg/Kg wet	1860		92.7		75.3-124.2	0.279	30	
Manganese	341	0.99	mg/Kg wet	264.0		**129**	*	80.7-118.9	17.1	30	L-07
Nickel	299	2.0	mg/Kg wet	298.0		100		82.2-117.8	2.15	30	
Selenium	262	9.9	mg/Kg wet	272.0		96.4		80.1-119.5	1.80	30	
Sodium	402	500	mg/Kg wet	406.0		99.0		74.9-124.9	0.0471	30	J
Thallium	110	5.0	mg/Kg wet	108.0		102		80-119.4	2.82	30	
Vanadium	181	2.0	mg/Kg wet	169.0		107		78.1-122.5	2.15	30	
Zinc	229	2.0	mg/Kg wet	236.0		97.1		80.1-120.3	1.83	30	
LCS Dup (B391603-BSD2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	1960	500	mg/Kg wet	2010		97.6		70.6-129.4	1.64	30	
Silver	74.9	0.99	mg/Kg wet	76.70		97.7		79.5-120.5	2.49	30	
Dilution Check (B391603-SRL1)		**Source: 24K0174-05**		Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	2870	93	mg/Kg dry		2830				1.54	20	
Antimony	ND	9.3	mg/Kg dry		ND					20	
Arsenic	2.97	19	mg/Kg dry		ND				16.5	20	J
Barium	29.5	9.3	mg/Kg dry		28.8				2.50	20	
Beryllium	ND	0.93	mg/Kg dry		ND					20	
Cadmium	ND	1.9	mg/Kg dry		ND					20	
Calcium	6460	93	mg/Kg dry		6250				3.29	20	
Chromium	5.59	3.7	mg/Kg dry		5.34				4.53	20	
Cobalt	3.09	9.3	mg/Kg dry		2.83				8.61	20	J
Copper	8.89	7.5	mg/Kg dry		8.28				7.09	20	
Iron	7040	93	mg/Kg dry		6610				6.22	20	
Lead	3.80	2.8	mg/Kg dry		3.33				13.0	20	
Magnesium	2580	93	mg/Kg dry		2480				3.68	20	
Manganese	199	1.9	mg/Kg dry		191				3.90	20	
Nickel	8.65	3.7	mg/Kg dry		7.60				13.0	20	
Selenium	ND	19	mg/Kg dry		ND					20	
Sodium	ND	930	mg/Kg dry		ND					20	
Thallium	ND	9.3	mg/Kg dry		ND					20	
Vanadium	8.29	3.7	mg/Kg dry		8.38				1.14	20	
Zinc	16.0	3.7	mg/Kg dry		14.6				9.12	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392686 - SW-846 7470A Prep										
Blank (B392686-BLK1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	ND	0.00020	mg/L							
LCS (B392686-BS1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	0.00378	0.00020	mg/L	0.004020		94.1	80-120			
LCS Dup (B392686-BSD1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	0.00362	0.00020	mg/L	0.004020		90.0	80-120	4.40	20	
Batch B393090 - SW-846 7471										
Blank (B393090-BLK1)				Prepared & Analyzed: 11/25/24						
Mercury	ND	0.024	mg/Kg wet							
LCS (B393090-BS1)				Prepared & Analyzed: 11/25/24						
Mercury	22.5	1.6	mg/Kg wet	22.80		98.6	70.6-129.4			
LCS Dup (B393090-BSD1)				Prepared & Analyzed: 11/25/24						
Mercury	20.8	1.8	mg/Kg wet	22.80		91.1	70.6-129.4	7.92	20	
Batch B393099 - SW-846 7471										
Blank (B393099-BLK1)				Prepared & Analyzed: 11/25/24						
Mercury	ND	0.024	mg/Kg wet							
LCS (B393099-BS1)				Prepared & Analyzed: 11/25/24						
Mercury	22.6	1.8	mg/Kg wet	22.80		99.1	70.6-129.4			
LCS Dup (B393099-BSD1)				Prepared & Analyzed: 11/25/24						
Mercury	24.5	1.7	mg/Kg wet	22.80		107	70.6-129.4	8.11	20	
Batch B393101 - SW-846 7471										
Blank (B393101-BLK1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Mercury	ND	0.025	mg/Kg wet							
LCS (B393101-BS1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Mercury	23.2	1.9	mg/Kg wet	22.80		102	70.6-129.4			
LCS Dup (B393101-BSD1)				Prepared: 11/25/24 Analyzed: 11/27/24						
Mercury	24.5	1.8	mg/Kg wet	22.80		108	70.6-129.4	5.74	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B391415 - SW-846 9010C											
Blank (B391415-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Cyanide	ND	0.48	mg/Kg wet								
LCS (B391415-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Cyanide	62	4.9	mg/Kg wet	84.56		72.8	30.6-170				
LCS Dup (B391415-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Cyanide	93	4.9	mg/Kg wet	85.26		109	30.6-170	**40.4**	*	30	L-07A
Batch B391854 - SW-846 9010C											
Blank (B391854-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	ND	0.49	mg/Kg wet								
LCS (B391854-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	110	4.9	mg/Kg wet	84.08		129	30.6-170				
LCS Dup (B391854-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	93	5.0	mg/Kg wet	86.19		108	30.6-170	15.9		30	
Batch B391856 - SW-846 9010C											
Blank (B391856-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	ND	0.010	mg/L								
LCS (B391856-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	0.31	0.010	mg/L	0.3000		104	80-120				
LCS Dup (B391856-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	0.31	0.010	mg/L	0.3000		103	80-120	0.822		20	
Matrix Spike (B391856-MS1)	**Source: 24J4506-09**			Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	0.30	0.010	mg/L	0.3000	ND	101	75-125				
Matrix Spike Dup (B391856-MSD1)	**Source: 24J4506-09**			Prepared: 11/10/24 Analyzed: 11/11/24							
Cyanide	0.30	0.010	mg/L	0.3000	ND	98.9	75-125	2.12		20	
Batch B391995 - SW-846 9010C											
Blank (B391995-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24							
Cyanide	ND	0.50	mg/Kg wet								

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391995 - SW-846 9010C										
LCS (B391995-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	100	4.9	mg/Kg wet	83.86		124	30.6-170			
LCS Dup (B391995-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	110	4.8	mg/Kg wet	83.56		126	30.6-170	0.862	30	

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BREAKDOWN REPORT

Lab Sample ID:	S113851-PEM1	Analyzed:	11/08/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.50
Endrin [1]	2.90

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.05
Endrin [2]	3.05

BREAKDOWN REPORT

Lab Sample ID:	S114334-PEM1	Analyzed:	11/20/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.22
Endrin [1]	1.87

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.03
Endrin [2]	2.32

BREAKDOWN REPORT

Lab Sample ID:	S114334-PEM2	Analyzed:	11/20/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.44
Endrin [1]	6.48

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BREAKDOWN REPORT

Lab Sample ID:	**S114334-PEM2**	**Analyzed:**	**11/20/2024**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.26
Endrin [2]	6.99

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391389-BS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.402	5.372	5.432	1.6	
	2	5.353	5.324	5.384	1.6	0.0
4,4'-DDE	1	4.915	4.885	4.945	1.6	
	2	4.888	4.858	4.918	1.6	0.0
4,4'-DDT	1	5.631	5.601	5.661	1.6	
	2	5.608	5.578	5.638	1.7	6.1
Aldrin	1	4.150	4.120	4.180	1.2	
	2	4.021	3.992	4.052	1.3	8.0
alpha-BHC	1	3.266	3.237	3.297	1.5	
	2	3.152	3.123	3.183	1.5	0.0
alpha-Chlordane	1	4.851	4.821	4.881	1.5	
	2	4.743	4.713	4.773	1.5	0.0
beta-BHC	1	3.591	3.561	3.621	1.5	
	2	3.496	3.466	3.526	1.6	6.5
delta-BHC	1	3.734	3.703	3.763	1.4	
	2	3.723	3.693	3.753	1.4	0.0
Dieldrin	1	5.157	5.127	5.187	1.5	
	2	5.004	4.974	5.034	1.6	6.5
Endosulfan I	1	4.962	4.931	4.991	1.5	
	2	4.784	4.754	4.814	1.6	6.5
Endosulfan II	1	5.529	5.499	5.559	1.6	
	2	5.419	5.389	5.449	1.6	0.0
Endosulfan Sulfate	1	6.199	6.169	6.229	1.5	
	2	5.919	5.890	5.950	1.5	0.0
Endrin	1	5.347	5.317	5.377	1.6	
	2	5.246	5.216	5.276	1.6	0.0
Endrin Aldehyde	1	5.873	5.843	5.903	1.4	
	2	5.695	5.666	5.726	1.4	0.0
Endrin Ketone	1	6.388	6.358	6.418	1.5	
	2	6.293	6.263	6.323	1.6	6.5
gamma-BHC (Lindane)	1	3.522	3.492	3.552	1.5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391389-BS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.428	3.399	3.459	1.5	0.0
gamma-Chlordane	1	4.742	4.712	4.772	1.5	
	2	4.626	4.596	4.656	1.6	6.5
Heptachlor	1	3.907	3.876	3.936	1.4	
	2	3.771	3.741	3.801	1.4	0.0
Heptachlor Epoxide	1	4.642	4.612	4.672	1.5	
	2	4.475	4.445	4.505	1.6	6.5
Methoxychlor	1	6.020	5.990	6.050	1.6	
	2	6.146	6.116	6.176	1.6	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391389-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.402	5.372	5.432	1.7	
	2	5.353	5.324	5.384	1.8	5.7
4,4'-DDE	1	4.914	4.885	4.945	1.7	
	2	4.888	4.858	4.918	1.7	0.0
4,4'-DDT	1	5.632	5.601	5.661	1.7	
	2	5.608	5.578	5.638	1.8	5.7
Aldrin	1	4.150	4.120	4.180	1.4	
	2	4.021	3.992	4.052	1.5	6.9
alpha-BHC	1	3.266	3.237	3.297	1.7	
	2	3.152	3.123	3.183	1.7	0.0
alpha-Chlordane	1	4.851	4.821	4.881	1.7	
	2	4.743	4.713	4.773	1.7	0.0
beta-BHC	1	3.590	3.561	3.621	1.7	
	2	3.496	3.466	3.526	1.8	5.7
delta-BHC	1	3.733	3.703	3.763	1.5	
	2	3.723	3.693	3.753	1.6	6.5
Dieldrin	1	5.157	5.127	5.187	1.7	
	2	5.004	4.974	5.034	1.8	5.7
Endosulfan I	1	4.962	4.931	4.991	1.6	
	2	4.784	4.754	4.814	1.7	6.1
Endosulfan II	1	5.529	5.499	5.559	1.7	
	2	5.419	5.389	5.449	1.8	5.7
Endosulfan Sulfate	1	6.199	6.169	6.229	1.7	
	2	5.919	5.890	5.950	1.7	0.0
Endrin	1	5.347	5.317	5.377	1.8	
	2	5.246	5.216	5.276	1.8	0.0
Endrin Aldehyde	1	5.874	5.843	5.903	1.5	
	2	5.695	5.666	5.726	1.6	6.5
Endrin Ketone	1	6.389	6.358	6.418	1.7	
	2	6.293	6.263	6.323	1.7	0.0
gamma-BHC (Lindane)	1	3.522	3.492	3.552	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391389-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.428	3.399	3.459	1.7	6.1
gamma-Chlordane	1	4.742	4.712	4.772	1.6	
	2	4.626	4.596	4.656	1.7	6.1
Heptachlor	1	3.907	3.876	3.936	1.5	
	2	3.770	3.741	3.801	1.6	6.5
Heptachlor Epoxide	1	4.641	4.612	4.672	1.6	
	2	4.475	4.445	4.505	1.7	0.0
Methoxychlor	1	6.019	5.990	6.050	1.7	
	2	6.146	6.116	6.176	1.7	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391391-BS1 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	0.85	1.2
Aroclor-1260	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391391-BSD1

Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.96	
	2	0.000	0.000	0.000	0.89	7.6
Aroclor-1260	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391688-BS1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.099	
	2	0.000	0.000	0.000	0.093	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.10	
	2	0.000	0.000	0.000	0.094	6.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391688-BSD1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.089	
	2	0.000	0.000	0.000	0.083	7.0
Aroclor-1260	1	0.000	0.000	0.000	0.094	
	2	0.000	0.000	0.000	0.086	8.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392152-BS1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.393	5.364	5.424	0.082	
	2	5.350	5.320	5.380	0.084	2.4
4,4'-DDE	1	4.907	4.878	4.938	0.080	
	2	4.885	4.855	4.915	0.084	4.9
4,4'-DDT	1	5.624	5.594	5.654	0.082	
	2	5.605	5.575	5.635	0.084	2.4
Aldrin	1	4.143	4.113	4.173	0.074	
	2	4.019	3.989	4.049	0.078	5.3
alpha-BHC	1	3.261	3.231	3.291	0.075	
	2	3.151	3.120	3.180	0.078	3.9
alpha-Chlordane	1	4.843	4.813	4.873	0.074	
	2	4.740	4.709	4.769	0.080	7.8
beta-BHC	1	3.585	3.554	3.614	0.070	
	2	3.494	3.464	3.524	0.074	5.6
delta-BHC	1	3.727	3.697	3.757	0.073	
	2	3.721	3.690	3.750	0.074	1.4
Dieldrin	1	5.150	5.120	5.180	0.078	
	2	5.001	4.970	5.030	0.083	6.2
Endosulfan I	1	4.954	4.924	4.984	0.074	
	2	4.781	4.751	4.811	0.081	9.0
Endosulfan II	1	5.521	5.491	5.551	0.075	
	2	5.415	5.385	5.445	0.080	6.5
Endosulfan Sulfate	1	6.191	6.161	6.221	0.068	
	2	5.916	5.886	5.946	0.076	11.1
Endrin	1	5.339	5.309	5.369	0.085	
	2	5.243	5.212	5.272	0.084	1.2
Endrin Aldehyde	1	5.865	5.835	5.895	0.063	
	2	5.691	5.662	5.722	0.070	10.5
Endrin Ketone	1	6.382	6.351	6.411	0.073	
	2	6.290	6.260	6.320	0.072	1.4
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.071	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392152-BS1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.426	3.396	3.456	0.075	5.5
gamma-Chlordane	1	4.734	4.705	4.765	0.081	
	2	4.623	4.593	4.653	0.079	2.5
Heptachlor	1	3.901	3.870	3.930	0.078	
	2	3.769	3.738	3.798	0.081	3.8
Heptachlor Epoxide	1	4.634	4.604	4.664	0.076	
	2	4.472	4.441	4.501	0.079	3.9
Methoxychlor	1	6.013	5.983	6.043	0.082	
	2	6.143	6.114	6.174	0.084	2.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392152-BSD1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.393	5.364	5.424	0.086	
	2	5.351	5.320	5.380	0.089	3.4
4,4'-DDE	1	4.907	4.878	4.938	0.085	
	2	4.885	4.855	4.915	0.089	4.6
4,4'-DDT	1	5.624	5.594	5.654	0.086	
	2	5.605	5.575	5.635	0.086	0.0
Aldrin	1	4.144	4.113	4.173	0.077	
	2	4.019	3.989	4.049	0.083	6.2
alpha-BHC	1	3.262	3.231	3.291	0.080	
	2	3.151	3.120	3.180	0.082	2.5
alpha-Chlordane	1	4.843	4.813	4.873	0.079	
	2	4.740	4.709	4.769	0.085	7.3
beta-BHC	1	3.585	3.554	3.614	0.072	
	2	3.494	3.464	3.524	0.077	6.7
delta-BHC	1	3.728	3.697	3.757	0.078	
	2	3.721	3.690	3.750	0.080	2.5
Dieldrin	1	5.150	5.120	5.180	0.082	
	2	5.001	4.970	5.030	0.088	7.1
Endosulfan I	1	4.954	4.924	4.984	0.079	
	2	4.782	4.751	4.811	0.086	8.5
Endosulfan II	1	5.521	5.491	5.551	0.079	
	2	5.415	5.385	5.445	0.085	7.3
Endosulfan Sulfate	1	6.191	6.161	6.221	0.073	
	2	5.916	5.886	5.946	0.082	11.6
Endrin	1	5.339	5.309	5.369	0.089	
	2	5.243	5.212	5.272	0.088	1.1
Endrin Aldehyde	1	5.865	5.835	5.895	0.063	
	2	5.691	5.662	5.722	0.072	13.3
Endrin Ketone	1	6.381	6.351	6.411	0.077	
	2	6.290	6.260	6.320	0.076	1.3
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.075	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392152-BSD1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.426	3.396	3.456	0.079	5.2
gamma-Chlordane	1	4.734	4.705	4.765	0.083	
	2	4.624	4.593	4.653	0.084	1.2
Heptachlor	1	3.900	3.870	3.930	0.082	
	2	3.768	3.738	3.798	0.086	4.8
Heptachlor Epoxide	1	4.634	4.604	4.664	0.080	
	2	4.472	4.441	4.501	0.084	4.9
Methoxychlor	1	6.012	5.983	6.043	0.085	
	2	6.143	6.114	6.174	0.089	4.6

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Non-extracted internal standard compound recovery <50%. Possible high bias present on associated extracted internal standard recoveries
Z-01a	Non-extracted internal standard compound recovery <50%. Possible high bias present on associated extracted internal standard recoveries.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC

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Analyte	Certifications
SW-846 8081B in Soil	
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane	NC

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Analyte	Certifications
SW-846 8081B in Water	
gamma-Chlordane [2C]	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA

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Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA

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Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY

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SW-846 8260D in Water	
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA

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SW-846 8270E in Soil	
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

24J4506

RJM

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: WSP USA
Consultant Address:	40 La Riviere Dr. Buffalo, NY
Consultant Phone:	(732) 479-7572
Callout Project Name:	Court & Luquer
Project Location:	Brooklyn, NY
Callout Number:	C100913
Site/Spill Number:	224414
Project Manager:	G. Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	G. Mayer
Sampled By:	CP

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [X] EXCEL (CP) [X]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	CLMW-06-Z25-26	10/29	1030	X	X	S	
2	CLMW-06-Z36-37		1100	X	X	S	
3	CLMW-06-Z42-43		1110	X	X	S	
4	CLMW-06-Z48-49		1120	X	X	S	
5	CLMW-03-Z12-13	10/30	1100	X	X	S	
6	CLMW-03-Z21-22		1130	X	X	S	
7	CLMW-03-Z35-36		1200	X	X	S	
8	CLMW-03-Z42-43		1210	X	X	S	
9	FB-241030		1500	(CP) 10/30/24		W	
10	TB-241030					W	

# of Containers	3	1	1	1	1	1	1	1				
[2] Preservation Code												
[3] Container Code												

8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 1633	PFAS 537 ID	Mercury 7471B	Cyanide 9010B
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) (WSP)	Date/Time: 10/30/24, 1530	
Received by: (signature) WIFI Pace	Date/Time: 10/30/24 1530	
Relinquished by: (signature) WIFI Pace	Date/Time: 10/30/24 2030	
Received by: (signature) Anthony Green	Date/Time: OCT 30 2024 2220	
Relinquished by: (signature) Anthony Green	Date/Time: 0440 10/31/24	
Received by: (signature)	Date/Time: 0440 10/31/24	

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

Page 209 of 268

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log in Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client WSP USA

Project Court & Liquer

MCP/RCP Required N/A

Deliverable Package Requirement CATB

Location Brooklyn, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time LWS 10-31-24 @ 7:08

Back-Sheet By / Date / Time Eli 10-31-24 @ 10:51

Temperature Method Gun #6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp X < 6° C Actual Temperature 2.8

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars	1	1					1	1												
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers									2											
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL										5											
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL										1											
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric											1											
NaOH											1											
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl											3											
MeOH			1						1	1		1										
D.I. Water																						
BiSulfate			2							2		2										
Col/Bact		Other/Fill in																				
125mL Plastic			1						1	1												
Other			1						1	1												

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Environmental Site Remediation Database Search Details

Site Record

Document Repository

Site-related documents are available for review through the DECInfo Locator on line at DECInfoLocator

Administrative Information

Site Name: Source Area Trackdown - Court St. and Luquer St.
Site Code: 224414
Program: State Superfund Program
Classification: P *
EPA ID Number:

Location

DEC Region: 2
Address: Court Street And Luquer Street
City: Brooklyn Zip: 11231
County: Kings
Latitude:
Longitude:
Site Type:
Estimated Size: 0 Acres

Site Owner(s) and Operator(s)

Site Description

Site Health Assessment

As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.

* **Class P Sites:** "DEC offers this information with the caution that it should not be used to form conclusions about site contamination beyond what is implied by the classification of this site, namely, that there is a potential for concern about site contamination. Information regarding a Class P site (potential Registry site) is by definition preliminary in nature and unverified because the DEC's investigation of the site is not yet

ANALYTICAL REPORT

Lab Number:	L2464610
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24J4506
Project Number:	24J4506
Report Date:	11/19/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2464610-01	CLMW-06-Z25-26	SOIL	Not Specified	10/29/24 10:30	11/05/24
L2464610-02	CLMW-06-Z36-37	SOIL	Not Specified	10/29/24 11:00	11/05/24
L2464610-03	CLMW-06-Z42-43	SOIL	Not Specified	10/29/24 11:10	11/05/24
L2464610-04	CLMW-06-Z48-49	SOIL	Not Specified	10/29/24 11:20	11/05/24
L2464610-05	CLMW-03-Z21-22	SOIL	Not Specified	10/30/24 11:30	11/05/24
L2464610-06	CLMW-03-Z35-36	SOIL	Not Specified	10/30/24 12:00	11/05/24
L2464610-07	CLMW-03-Z42-43	SOIL	Not Specified	10/30/24 12:10	11/05/24
L2464610-08	FB-241030	WATER	Not Specified	10/30/24 15:00	11/05/24

Project Name:	24J4506	**Lab Number:**	L2464610
Project Number:	24J4506	**Report Date:**	11/19/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 24J4506 **Lab Number:** L2464610
Project Number: 24J4506 **Report Date:** 11/19/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative Date: 11/19/24

ORGANICS

PESTICIDES

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-01
Client ID: CLMW-06-Z25-26
Sample Location: Not Specified

Date Collected: 10/29/24 10:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 13:23
Analyst: EJL
Percent Solids: 97%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3440	1080	1	A
MCPA	ND		ug/kg	3440	973.	1	A
Dalapon	ND		ug/kg	34.4	11.2	1	A
Dicamba	ND		ug/kg	34.4	5.78	1	A
Dichloroprop	ND		ug/kg	34.4	9.87	1	A
2,4-D	ND		ug/kg	172	10.8	1	A
2,4-DB	ND		ug/kg	172	8.84	1	A
2,4,5-T	ND		ug/kg	172	5.33	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	87		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-02
Client ID: CLMW-06-Z36-37
Sample Location: Not Specified

Date Collected: 10/29/24 11:00
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 13:41
Analyst: EJL
Percent Solids: 96%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3430	1080	1	A
MCPA	ND		ug/kg	3430	970.	1	A
Dalapon	ND		ug/kg	34.3	11.2	1	A
Dicamba	ND		ug/kg	34.3	5.76	1	A
Dichloroprop	ND		ug/kg	34.3	9.84	1	A
2,4-D	ND		ug/kg	171	10.8	1	A
2,4-DB	ND		ug/kg	171	8.81	1	A
2,4,5-T	ND		ug/kg	171	5.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	85		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-03
Client ID: CLMW-06-Z42-43
Sample Location: Not Specified

Date Collected: 10/29/24 11:10
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 14:00
Analyst: EJL
Percent Solids: 86%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3800	1200	1	A
MCPA	ND		ug/kg	3800	1080	1	A
Dalapon	ND		ug/kg	38.0	12.4	1	A
Dicamba	ND		ug/kg	38.0	6.39	1	A
Dichloroprop	ND		ug/kg	38.0	10.9	1	A
2,4-D	ND		ug/kg	190	12.0	1	A
2,4-DB	ND		ug/kg	190	9.77	1	A
2,4,5-T	ND		ug/kg	190	5.89	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	87		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-04
Client ID: CLMW-06-Z48-49
Sample Location: Not Specified

Date Collected: 10/29/24 11:20
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 14:18
Analyst: EJL
Percent Solids: 88%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3740	1180	1	A
MCPA	ND		ug/kg	3740	1060	1	A
Dalapon	ND		ug/kg	37.4	12.2	1	A
Dicamba	ND		ug/kg	37.4	6.29	1	A
Dichloroprop	ND		ug/kg	37.4	10.7	1	A
2,4-D	ND		ug/kg	187	11.8	1	A
2,4-DB	ND		ug/kg	187	9.62	1	A
2,4,5-T	ND		ug/kg	187	5.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	98		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-05
Client ID: CLMW-03-Z21-22
Sample Location: Not Specified

Date Collected: 10/30/24 11:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 14:36
Analyst: EJL
Percent Solids: 85%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3890	1220	1	A
MCPA	ND		ug/kg	3890	1100	1	A
Dalapon	ND		ug/kg	38.9	12.7	1	A
Dicamba	ND		ug/kg	38.9	6.53	1	A
Dichloroprop	ND		ug/kg	38.9	11.2	1	A
2,4-D	ND		ug/kg	194	12.2	1	A
2,4-DB	ND		ug/kg	194	9.99	1	A
2,4,5-T	ND		ug/kg	194	6.03	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	93		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-06
Client ID: CLMW-03-Z35-36
Sample Location: Not Specified

Date Collected: 10/30/24 12:00
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 16:10
Analyst: EJL
Percent Solids: 88%
Methylation Date: 11/12/24 22:14

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3670	1160	1	A
MCPA	ND		ug/kg	3670	1040	1	A
Dalapon	ND		ug/kg	36.7	12.0	1	A
Dicamba	ND		ug/kg	36.7	6.17	1	A
Dichloroprop	ND		ug/kg	36.7	10.5	1	A
2,4-D	ND		ug/kg	184	11.6	1	A
2,4-DB	ND		ug/kg	184	9.44	1	A
2,4,5-T	ND		ug/kg	184	5.70	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	89		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-07
Client ID: CLMW-03-Z42-43
Sample Location: Not Specified

Date Collected: 10/30/24 12:10
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 05:17
Analyst: AKM
Percent Solids: 83%
Methylation Date: 11/13/24 11:20

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3960	1250	1	A
MCPA	ND		ug/kg	3960	1120	1	A
Dalapon	ND		ug/kg	39.6	12.9	1	A
Dicamba	ND		ug/kg	39.6	6.65	1	A
Dichloroprop	ND		ug/kg	39.6	11.4	1	A
2,4-D	ND		ug/kg	198	12.5	1	A
2,4-DB	ND		ug/kg	198	10.2	1	A
2,4,5-T	ND		ug/kg	198	6.14	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	82		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-08
Client ID: FB-241030
Sample Location: Not Specified

Date Collected: 10/30/24 15:00
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/08/24 14:05
Analyst: JAG

Extraction Method: EPA 8151A
Extraction Date: 11/06/24 22:42

Methylation Date: 11/07/24 19:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	48		30-150	A
DCAA	46		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/07/24 08:59
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/06/24 04:30

Methylation Date: 11/06/24 22:36

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08 Batch: WG1993807-1						
MCPP	ND		ug/l	500	58.5	A
MCPA	ND		ug/l	500	63.2	A
Dalapon	ND		ug/l	20.0	0.810	A
Dicamba	ND		ug/l	1.00	0.243	A
Dichloroprop	ND		ug/l	10.0	0.564	A
2,4-D	ND		ug/l	10.0	0.498	A
2,4-DB	ND		ug/l	10.0	0.729	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A
Dinoseb	ND		ug/l	5.00	0.573	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	68		30-150	B

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/13/24 09:07
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 17:56

Methylation Date: 11/12/24 22:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1995961-1						
MCPP	ND		ug/kg	3320	1040	A
MCPA	ND		ug/kg	3320	939.	A
Dalapon	ND		ug/kg	33.2	10.8	A
Dicamba	ND		ug/kg	33.2	5.57	A
Dichloroprop	ND		ug/kg	33.2	9.52	A
2,4-D	ND		ug/kg	166	10.4	A
2,4-DB	ND		ug/kg	166	8.53	A
2,4,5-T	ND		ug/kg	166	5.14	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.41	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	88		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J4506
Project Number: 24J4506
Lab Number: L2464610
Report Date: 11/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1993807-2 WG1993807-3									
MCPP	87		95		30-150	9		25	A
MCPA	76		80		30-150	5		25	A
Dalapon	68		61		30-150	11		25	A
Dicamba	80		83		30-150	4		25	A
Dichloroprop	78		80		30-150	3		25	A
2,4-D	76		81		30-150	6		25	A
2,4-DB	95		98		30-150	3		25	A
2,4,5-T	87		91		30-150	4		25	A
2,4,5-TP (Silvex)	83		86		30-150	4		25	A
Dinoseb	68		69		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	79		82		30-150	A
DCAA	78		82		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1995961-2 WG1995961-3									
MCPP	81		96		30-150	17		30	A
MCPA	74		87		30-150	16		30	A
Dalapon	59		62		30-150	5		30	A
Dicamba	77		92		30-150	18		30	A
Dichloroprop	80		94		30-150	16		30	A
2,4-D	80		95		30-150	17		30	A
2,4-DB	99		112		30-150	12		30	A
2,4,5-T	82		96		30-150	16		30	A
2,4,5-TP (Silvex)	78		92		30-150	16		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	75		92		30-150	A
DCAA	86		105		30-150	B

Table of Contents

INORGANICS
&
MISCELLANEOUS

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-01
Client ID: CLMW-06-Z25-26
Sample Location: Not Specified

Date Collected: 10/29/24 10:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.5		%	0.100	NA	1	-	11/12/24 17:05	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-02
Client ID: CLMW-06-Z36-37
Sample Location: Not Specified

Date Collected: 10/29/24 11:00
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.3		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-03
Client ID: CLMW-06-Z42-43
Sample Location: Not Specified

Date Collected: 10/29/24 11:10
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-04
Client ID: CLMW-06-Z48-49
Sample Location: Not Specified

Date Collected: 10/29/24 11:20
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-05
Client ID: CLMW-03-Z21-22
Sample Location: Not Specified

Date Collected: 10/30/24 11:30
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-06
Client ID: CLMW-03-Z35-36
Sample Location: Not Specified

Date Collected: 10/30/24 12:00
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2464610-07
Client ID: CLMW-03-Z42-43
Sample Location: Not Specified

Date Collected: 10/30/24 12:10
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	11/11/24 17:43	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG1995959-1 QC Sample: L2465225-04 Client ID: DUP Sample						
Solids, Total	95.2	95.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1996516-1 QC Sample: L2464610-01 Client ID: CLMW-06-Z25-26						
Solids, Total	96.5	96.6	%	0		20

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2464610
Report Date: 11/19/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2464610-01A	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-02A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-03A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-04A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-05A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-06A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-07A	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464610-08A	Glass 250ml/8oz unpreserved	B	N/A	N/A	3.4	Y	Absent		ARCHIVE()
L2464610-08B	Amber 1L unpreserved	B	6	6	3.4	Y	Absent		HERB-8151(7)

*Values in parentheses indicate holding time in days

Table of Contents

Project Name:	24J4506	**Lab Number:**	L2464610
Project Number:	24J4506	**Report Date:**	11/19/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J4506	**Lab Number:**	L2464610
Project Number:	24J4506	**Report Date:**	11/19/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J4506	**Lab Number:**	L2464610
Project Number:	24J4506	**Report Date:**	11/19/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24J4506 **Lab Number:** L2464610

Project Number: 24J4506 **Report Date:** 11/19/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2464610
CONTEST

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J4506

SENDING LABORATORY:	RECEIVING LABORATORY:
Pace New England	Alpha Analytical Laboratory
39 Spruce Street	8 Walkup Drive
East Longmeadow, MA 01028	Westborough, MA 01581
Phone: 413.525.2332	Phone :(508) 898-9220
Fax: 413.525.6405	Fax: (508) 898-9193
Project Manager: Raymond J. McCarthy	

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J4506-01	**CLMW-06-Z25-26**	Soil	Sampled:	10/29/24 10:30	CAT B
S-8151 DER TCL		12/02/24 14:00		11/12/24 10:30	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24J4506-02	**CLMW-06-Z36-37**	Soil	Sampled:	10/29/24 11:00	CAT B
S-8151 DER TCL		12/02/24 14:00		11/12/24 11:00	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					
Sample ID: 24J4506-03	**CLMW-06-Z42-43**	Soil	Sampled:	10/29/24 11:10	CAT B
S-8151 DER TCL		12/02/24 14:00		11/12/24 11:10	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					
Sample ID: 24J4506-04	**CLMW-06-Z48-49**	Soil	Sampled:	10/29/24 11:20	CAT B
S-8151 DER TCL		12/02/24 14:00		11/12/24 11:20	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					
Sample ID: 24J4506-06	**CLMW-03-Z21-22**	Soil	Sampled:	10/30/24 11:30	CAT B
S-8151 DER TCL		12/02/24 14:00		11/13/24 11:30	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					
Sample ID: 24J4506-07	**CLMW-03-Z35-36**	Soil	Sampled:	10/30/24 12:00	CAT B
S-8151 DER TCL		12/02/24 14:00		11/13/24 12:00	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					

Released By	11/5/24 1555 Date	Received By	11-05-24 1555 Date
Released By	11-05-24 1750 Date	Received By	11/05 1750 Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J4506

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J4506-08	**CLMW-03-Z42-43**	**Soil**	**Sampled:**	**10/30/24 12:10**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/13/24 12:10	Cat B Report to MDL
Containers Supplied:					
8 oz amber glass jar (G)					
Sample ID: 24J4506-09	**FB-241030**	**Water**	**Sampled:**	**10/30/24 15:00**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/06/24 15:00	Cat B Report to MDL
Containers Supplied:					
1 L amber (A)					

Released By	Date	Received By	Date
	11/5/24 1555		11-05-24 1555
	11-05-24 1750		11/05 1750

ANALYTICAL REPORT

Lab Number:	L2466252
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24J4506
Project Number:	24J4506
Report Date:	11/19/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2466252
Report Date: 11/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2466252-01	CLMW-03-Z12-13	SOIL	Not Specified	10/30/24 11:00	11/12/24

Project Name:	24J4506	**Lab Number:**	L2466252
Project Number:	24J4506	**Report Date:**	11/19/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 24J4506 **Lab Number:** L2466252
Project Number: 24J4506 **Report Date:** 11/19/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative Date: 11/19/24

ORGANICS

PESTICIDES

Project Name: 24J4506 **Lab Number:** L2466252

Project Number: 24J4506 **Report Date:** 11/19/24

SAMPLE RESULTS

Lab ID: L2466252-01
Client ID: CLMW-03-Z12-13
Sample Location: Not Specified

Date Collected: 10/30/24 11:00
Date Received: 11/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 21:09
Analyst: AKM
Percent Solids: 88%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3680	1160	1	A
MCPA	ND		ug/kg	3680	1040	1	A
Dalapon	ND		ug/kg	36.8	12.0	1	A
Dicamba	ND		ug/kg	36.8	6.19	1	A
Dichloroprop	ND		ug/kg	36.8	10.6	1	A
2,4-D	ND		ug/kg	184	11.6	1	A
2,4-DB	ND		ug/kg	184	9.46	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	72		30-150	B

Project Name: 24J4506 **Lab Number:** L2466252

Project Number: 24J4506 **Report Date:** 11/19/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/16/24 15:57
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Methylation Date: 11/15/24 18:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1997041-1						
MCPP	ND		ug/kg	3300	1040	A
MCPA	ND		ug/kg	3300	936.	A
Dalapon	ND		ug/kg	33.0	10.8	A
Dicamba	ND		ug/kg	33.0	5.55	A
Dichloroprop	ND		ug/kg	33.0	9.49	A
2,4-D	ND		ug/kg	165	10.4	A
2,4-DB	ND		ug/kg	165	8.50	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	64		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J4506
Project Number: 24J4506
Lab Number: L2466252
Report Date: 11/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1997041-2 WG1997041-3									
MCPP	78		82		30-150	5		30	A
MCPA	62		63		30-150	2		30	A
Dalapon	45		47		30-150	4		30	A
Dicamba	66		71		30-150	7		30	A
Dichloroprop	68		78		30-150	14		30	A
2,4-D	68		76		30-150	11		30	A
2,4-DB	90		90		30-150	0		30	A
2,4,5-T	67		72		30-150	7		30	A
2,4,5-TP (Silvex)	66		70		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	65		70		30-150	A
DCAA	80		79		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2466252
Report Date: 11/19/24

SAMPLE RESULTS

Lab ID: L2466252-01
Client ID: CLMW-03-Z12-13
Sample Location: Not Specified

Date Collected: 10/30/24 11:00
Date Received: 11/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	11/17/24 18:04	121,2540G	MAW

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2466252
Report Date: 11/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1998623-1 QC Sample: L2466252-01 Client ID: CLMW-03-Z12-13						
Solids, Total	88.2	89.0	%	1		20

Project Name: 24J4506
Project Number: 24J4506

Lab Number: L2466252
Report Date: 11/19/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2466252-01A	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		TS(7),HERB-8151(14)

*Values in parentheses indicate holding time in days

Table of Contents

Project Name:	24J4506	**Lab Number:**	L2466252
Project Number:	24J4506	**Report Date:**	11/19/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J4506	**Lab Number:**	L2466252
Project Number:	24J4506	**Report Date:**	11/19/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J4506	**Lab Number:**	L2466252
Project Number:	24J4506	**Report Date:**	11/19/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24J4506 **Lab Number:** L2466252

Project Number: 24J4506 **Report Date:** 11/19/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J4506

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

Alpha Analytical Laboratory
8 Walkup Drive
Westborough, MA 01581
Phone :(508) 898-9220
Fax: (508) 898-9193

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J4506-01	**CLMW-06-Z25-26**	**Soil**	**Sampled:**	**10/29/24 10:30**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 4 oz amber glass jar (G)		12/02/24 14:00		11/12/24 10:30	Cat B Report to MDL
Sample ID: 24J4506-02	**CLMW-06-Z36-37**	**Soil**	**Sampled:**	**10/29/24 11:00**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 8 oz amber glass jar (G)		12/02/24 14:00		11/12/24 11:00	Cat B Report to MDL
Sample ID: 24J4506-03	**CLMW-06-Z42-43**	**Soil**	**Sampled:**	**10/29/24 11:10**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 8 oz amber glass jar (G)		12/02/24 14:00		11/12/24 11:10	Cat B Report to MDL
Sample ID: 24J4506-04	**CLMW-06-Z48-49**	**Soil**	**Sampled:**	**10/29/24 11:20**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 8 oz amber glass jar (G)		12/02/24 14:00		11/12/24 11:20	Cat B Report to MDL
Sample ID: 24J4506-05	**CLMW-03-Z12-13**	**Soil**	**Sampled:**	**10/30/24 11:00**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 8 oz amber glass jar (G) 4 oz amber glass jar (H)		12/02/24 14:00		11/13/24 11:00	Cat B Report to MDL
Sample ID: 24J4506-06	**CLMW-03-Z21-22**	**Soil**	**Sampled:**	**10/30/24 11:30**	**CAT B**
S-8151 DER TCL *Containers Supplied:* 8 oz amber glass jar (G)		12/02/24 14:00		11/13/24 11:30	Cat B Report to MDL

Released By	Date	Received By	Date
1630			11-12-24 1630
Released By	Date	Received By	Date
	11-12-24 1800		11/12/24 1800

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J4506

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J4506-07	**CLMW-03-Z35-36**	**Soil**	**Sampled:**	**10/30/24 12:00**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/13/24 12:00	Cat B Report to MDL
Containers Supplied: 8 oz amber glass jar (G)	CH				
Sample ID: 24J4506-08	**CLMW-03-Z42-43**	**Soil**	**Sampled:**	**10/30/24 12:10**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/13/24 12:10	Cat B Report to MDL
Containers Supplied: 8 oz amber glass jar (G)	CH				
Sample ID: 24J4506-09	**FB-241030**	**Water**	**Sampled:**	**10/30/24 15:00**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/06/24 15:00	Cat B Report to MDL
Containers Supplied: 1 L amber (A)	CH				

Released By	Date	Received By	Date
Illegible	11-12-24 1800	Illegible	11-12-24 1830
Released By	Date	Received By	Date

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

24J4506

RJM

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Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: WSP USA
Consultant Address: 46 La Riviere Dr., Buffalo, NY
Consultant Phone: (732) 979-7572
Callout Project Name: Court & Luquer
Project Location: Brooklyn, NY
Callout Number: C100913
Site/Spill Number: 224414
Project Manager: G. Mayer
Pace Analytical Quote Name/Number:
Invoice Recipient: G. Mayer
Sampled By: CP

Requested Turnaround Time
DEC Standard 30-calendar day ☒
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ~~☒~~ EXCEL (☒) ~~☒~~
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: ☐
Email To: Gregory.Mayer@WSP.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	CLMW-06-Z25-26	10/29	1030	X	X	S	
2	CLMW-06-Z36-37	↓	1100	X	X	S	
3	CLMW-06-Z42-43	↓	1110	X	X	S	
4	CLMW-06-Z48-49	↓	1120	X	X	S	
5	CLMW-03-Z12-13	10/30	1100	X	X	S	
6	CLMW-03-Z21-22	↓	1130	X	X	S	
7	CLMW-03-Z35-36	↓	1200	X	X	S	
8	CLMW-03-Z42-43	↓	1210	X	X	S	
9	FB-241030	↓	1500	(18) 10/30/24		W	
10	TB-241030	↓				W	

# of Containers	3	1	1	1	1	1	1	1				
[2] Preservation Code												
[3] Container Code												
8260: DER TCL / Oxygenates / CP-51	X	X	X	X	X	X	X	X				
8270: DER TCL / CP-51	X	X	X	X	X	X	X	X				
1,4-Dioxane SIM | 8082 PCBs	X	X	X	X	X	X	X	X				
8081 Pesticide | 8151 Herbicide	X	X	X	X	X	X	X	X				
TCLP RCRA 8 Metals | TAL Total Metals	X	X	X	X	X	X	X	X				
PFAS 537 ID | PFAS 1633	X	X	X	X	X	X	X	X				
Mercury 7471B	X	X	X	X	X	X	X	X				
Cyanide 9010B	X	X	X	X	X	X	X	X				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
(WSP)	10/30/24, 1530
Received by: (signature) WIFI Pace	10/30/24 1530
Relinquished by: (signature) WIFI Pace	10/30/24 2030
Received by: (signature) Anthony Green OCT 30 2024 2220	
Relinquished by: (signature) Anthony Green	Date/Time: 0410 10/31/24
Received by: (signature)	Date/Time: 0410 10/31/24

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

10/31/24 0708 RAC: Page 10/31/24 0500 RAC: Page 10/31/24 0430 RAC: Page 10/31/24 0410 RAC:

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 4, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Carroll Gardens, Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K0174

Enclosed are results of analyses for samples as received by the laboratory on November 2, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/4/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0174

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Carroll Gardens, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-05-Z11-12	24K0174-01	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-05-Z24-25	24K0174-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-05-Z34-35	24K0174-03	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/4/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0174

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Carroll Gardens, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-05-Z34-35Q	24K0174-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-05-Z44-45	24K0174-05	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-02-Z17-18	24K0174-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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REPORT DATE: 12/4/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0174

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Carroll Gardens, Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-02-Z28-29	24K0174-07	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-02-Z34-35	24K0174-08	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-02-Z45-46	24K0174-09	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633

Qualifications:

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
24K0174-07[CLMW-02-Z28-29]

Perfluorooctanesulfonic acid (PFOS)
24K0174-01[CLMW-05-Z11-12]

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46]

SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Manganese
B391603-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
24K0174-05[CLMW-05-Z44-45], B391603-MS1, B391603-MSD1

Potassium
24K0174-05[CLMW-05-Z44-45], B391603-MS2, B391603-MSD2

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum
24K0174-05[CLMW-05-Z44-45], B391603-MS1

Calcium
24K0174-05[CLMW-05-Z44-45], B391603-MS1, B391603-MSD1

Iron
24K0174-05[CLMW-05-Z44-45], B391603-MS1, B391603-MSD1

Magnesium
24K0174-05[CLMW-05-Z44-45], B391603-MS1, B391603-MSD1

Manganese
24K0174-05[CLMW-05-Z44-45], B391603-MS1, B391603-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Barium
24K0174-05[CLMW-05-Z44-45], B391603-MS1

SW-846 8260D

Qualifications:

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MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Ethanol

24K0174-05[CLMW-05-Z44-45], B391537-MS1, B391537-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP)

24K0174-05[CLMW-05-Z44-45], B391537-MS1, B391537-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Ethanol

24K0174-01[CLMW-05-Z11-12], 24K0174-02[CLMW-05-Z24-25], 24K0174-03[CLMW-05-Z34-35], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391537-BLK1, B391537-BS2, B391537-BSD2, B391537-MS1, B391537-MSD1, S113485-CCV2

SW-846 8270E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

3-Penten-2-one, 4-methyl-

24K0174-01[CLMW-05-Z11-12], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1

Heptane, 2,3-dimethyl-

24K0174-01[CLMW-05-Z11-12], 24K0174-02[CLMW-05-Z24-25], 24K0174-03[CLMW-05-Z34-35], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1

Heptane, 2,5-dimethyl-

24K0174-01[CLMW-05-Z11-12], 24K0174-03[CLMW-05-Z34-35], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1

Hexane, 2,3,5-trimethyl-

24K0174-01[CLMW-05-Z11-12], 24K0174-04[CLMW-05-Z34-35Q], B391875-BLK1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Pyridine

24K0174-01[CLMW-05-Z11-12], 24K0174-02[CLMW-05-Z24-25], 24K0174-03[CLMW-05-Z34-35], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1, B391875-BS1, B391875-BSD1, B391875-MS1, B391875-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Aniline

B391875-MS1, B391875-MSD1

Hexachlorocyclopentadiene

B391875-MS1, B391875-MSD1

Pyridine

B391875-MS1, B391875-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Benzaldehyde

24K0174-01[CLMW-05-Z11-12], 24K0174-02[CLMW-05-Z24-25], 24K0174-03[CLMW-05-Z34-35], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1, B391875-BS1, B391875-BSD1, B391875-MS1, B391875-MSD1, S113829-CCV2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24K0174-01[CLMW-05-Z11-12], 24K0174-02[CLMW-05-Z24-25], 24K0174-03[CLMW-05-Z34-35], 24K0174-04[CLMW-05-Z34-35Q], 24K0174-05[CLMW-05-Z44-45], 24K0174-06[CLMW-02-Z17-18], 24K0174-07[CLMW-02-Z28-29], 24K0174-08[CLMW-02-Z34-35], 24K0174-09[CLMW-02-Z45-46], B391875-BLK1, B391875-BS1, B391875-BSD1, B391875-MS1, B391875-MSD1, S111153-ICV1, S113829-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	0.048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Amyl Alcohol (TAA)	ND	0.019	0.0040	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00093	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Benzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Bromochloromethane	ND	0.0019	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Bromodichloromethane	ND	0.0019	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Bromoform	ND	0.0019	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Bromomethane	ND	0.0093	0.0016	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
2-Butanone (MEK)	ND	0.037	0.0078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Butyl Alcohol (TBA)	ND	0.093	0.038	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
n-Butylbenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
sec-Butylbenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Butylbenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00093	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Carbon Disulfide	ND	0.019	0.0093	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Carbon Tetrachloride	ND	0.0019	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Chlorobenzene	ND	0.0019	0.00045	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Chlorodibromomethane	ND	0.00093	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Chloroethane	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Chloroform	ND	0.0037	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Chloromethane	ND	0.0093	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Cyclohexane	ND	0.0093	0.0038	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1-Dichloroethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2-Dichloroethane	ND	0.0019	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1-Dichloroethylene	ND	0.0037	0.00089	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2-Dichloropropane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
cis-1,3-Dichloropropene	ND	0.00093	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
trans-1,3-Dichloropropene	ND	0.00093	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Diisopropyl Ether (DIPE)	ND	0.00093	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Ethanol	ND	0.19	0.037	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Ethylbenzene	ND	0.0019	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
2-Hexanone (MBK)	ND	0.019	0.0064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Methyl Acetate	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	0.00082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Methyl Cyclohexane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Methylene Chloride	ND	0.019	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Naphthalene	ND	0.0037	0.00092	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
n-Propylbenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Styrene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00093	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Tetrachloroethylene	ND	0.0019	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Toluene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Trichloroethylene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0093	0.00097	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00089	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Vinyl Chloride	ND	0.0093	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
m+p Xylene	ND	0.0037	0.0013	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
o-Xylene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF
Xylenes (total)	ND	0.0019	0.0019	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 8:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/6/24 8:07
Toluene-d8	100	70-130		11/6/24 8:07
4-Bromofluorobenzene	99.3	70-130		11/6/24 8:07

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 8:07	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.71	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Atrazine	ND	0.71	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzaldehyde	ND	0.36	0.057	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Biphenyl	ND	0.71	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Caprolactam	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Acenaphthene	ND	0.18	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Acenaphthylene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Acetophenone	ND	0.36	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Aniline	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Anthracene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzo(a)anthracene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzo(a)pyrene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzo(b)fluoranthene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzo(g,h,i)perylene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Benzo(k)fluoranthene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Bis(2-chloroethoxy)methane	ND	0.36	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Bis(2-chloroethyl)ether	ND	0.36	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.36	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.36	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Bromophenylphenylether	ND	0.36	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Butylbenzylphthalate	ND	0.36	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Carbazole	ND	0.18	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Chloroaniline	ND	0.70	0.063	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Chloro-3-methylphenol	ND	0.70	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Chloronaphthalene	ND	0.36	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Chlorophenol	ND	0.36	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Chlorophenylphenylether	ND	0.36	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Chrysene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Dibenz(a,h)anthracene	ND	0.18	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Dibenzofuran	ND	0.36	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Di-n-butylphthalate	ND	0.36	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
3,3-Dichlorobenzidine	ND	0.18	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4-Dichlorophenol	ND	0.36	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Diethylphthalate	ND	0.36	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4-Dimethylphenol	ND	0.36	0.083	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Dimethylphthalate	ND	0.36	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4,6-Dinitro-2-methylphenol	ND	0.36	0.28	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4-Dinitrophenol	ND	0.70	0.28	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4-Dinitrotoluene	ND	0.36	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,6-Dinitrotoluene	ND	0.36	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Di-n-octylphthalate	ND	0.36	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Fluoranthene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Fluorene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Hexachlorobenzene	ND	0.36	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.36	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Hexachlorocyclopentadiene	ND	0.36	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Hexachloroethane	ND	0.36	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Indeno(1,2,3-cd)pyrene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Isophorone	ND	0.36	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
1-Methylnaphthalene	ND	0.18	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Methylnaphthalene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Methylphenol	ND	0.36	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
3/4-Methylphenol	ND	0.36	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Naphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Nitroaniline	ND	0.36	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
3-Nitroaniline	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Nitroaniline	ND	0.36	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Nitrobenzene	ND	0.36	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2-Nitrophenol	ND	0.36	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
4-Nitrophenol	ND	0.70	0.096	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
N-Nitrosodi-n-propylamine	ND	0.36	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Pentachlorophenol	ND	0.36	0.13	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Phenanthrene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Phenol	ND	0.36	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Pyrene	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Pyridine	ND	0.36	0.042	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4,5-Trichlorophenol	ND	0.36	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC
2,4,6-Trichlorophenol	ND	0.36	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:16	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	65.8	30-130		11/13/24 14:16
Phenol-d6	69.3	30-130		11/13/24 14:16
Nitrobenzene-d5	72.0	30-130		11/13/24 14:16
2-Fluorobiphenyl	66.4	30-130		11/13/24 14:16
2,4,6-Tribromophenol	77.5	30-130		11/13/24 14:16
p-Terphenyl-d14	77.6	30-130		11/13/24 14:16

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.052	0.041	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 10:25	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	23.1	15-110					11/15/24 10:25

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorooctanoic acid (PFOA)	0.40	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorooctanesulfonic acid (PFOS)	0.13	0.20	0.059	µg/kg dry	1	PF-23, J	Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 22:58	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	98.6	8-130		12/3/24 22:58
13C5-PFPeA	103	35-130		12/3/24 22:58
13C5-PFHxA	102	40-130		12/3/24 22:58
13C4-PFHpA	98.7	40-130		12/3/24 22:58
13C8-PFOA	104	40-130		12/3/24 22:58
13C9-PFNA	99.3	40-130		12/3/24 22:58
13C6-PFDA	95.4	40-130		12/3/24 22:58
13C7-PFUnA	106	40-130		12/3/24 22:58
13C2-PFDoA	100	40-130		12/3/24 22:58
13C2-PFTeDA	94.2	20-130		12/3/24 22:58
13C3-PFBS	96.0	40-135		12/3/24 22:58
13C3-PFHxS	99.8	40-130		12/3/24 22:58
13C8-PFOS	104	40-130		12/3/24 22:58
13C2-4:2FTS	108	40-165		12/3/24 22:58
13C2-6:2FTS	111	40-215		12/3/24 22:58
13C2-8:2FTS	109	40-275		12/3/24 22:58
13C8-PFOSA	94.3	40-130		12/3/24 22:58
D3-NMeFOSA	88.1	10-130		12/3/24 22:58
D5-NEtFOSA	90.8	10-130		12/3/24 22:58
D3-NMeFOSAA	98.2	40-135		12/3/24 22:58
D5-NEtFOSAA	104	40-150		12/3/24 22:58
D7-NMeFOSE	99.6	20-130		12/3/24 22:58
D9-NEtFOSE	98.4	15-130		12/3/24 22:58
13C3-HFPO-DA	102	40-130		12/3/24 22:58

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.1	mg/Kg dry	286861	3.495	1	000141-79-7	91	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Heptane, 2,3-dimethyl-	0.18	mg/Kg dry	45836	3.937	1	003074-71-3	91	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Heptane, 2,4-dimethyl-	0.15	mg/Kg dry	40403	3.68	1	002213-23-2	83	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Heptane, 2,5-dimethyl-	0.46	mg/Kg dry	118962	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Heptane, 2,6-dimethyl-	0.14	mg/Kg dry	35725	3.736	1	001072-05-5	91	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
Hexane, 2,3,5-trimethyl-	0.071	mg/Kg dry	18384	3.628	1	001069-53-0	86	SW-846 8270E	11/11/24	11/13/24 14:16	KMC
n-Hexadecanoic acid	0.17	mg/Kg dry	66718	8.062	1	000057-10-3	99	SW-846 8270E	11/11/24	11/13/24 14:16	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
gamma-Chlordane [1]	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Aldrin [1]	ND	0.0052	0.00051	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
alpha-BHC [1]	ND	0.0052	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
beta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
delta-BHC [1]	ND	0.0052	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
4,4'-DDD [1]	ND	0.0041	0.00088	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
4,4'-DDE [1]	ND	0.0041	0.00046	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
4,4'-DDT [1]	ND	0.0041	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Dieldrin [1]	ND	0.0041	0.00049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endosulfan I [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endosulfan II [1]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endosulfan sulfate [1]	ND	0.0083	0.0020	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endrin [1]	ND	0.0083	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endrin aldehyde [1]	ND	0.0083	0.0020	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Endrin ketone [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Heptachlor [1]	ND	0.0052	0.00057	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Heptachlor epoxide [1]	ND	0.0052	0.00060	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Methoxychlor [1]	ND	0.052	0.0061	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG
Toxaphene [2]	ND	0.10	0.049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.3	30-150		11/18/24 23:18
Decachlorobiphenyl [2]	66.9	30-150		11/18/24 23:18
Tetrachloro-m-xylene [1]	59.3	30-150		11/18/24 23:18
Tetrachloro-m-xylene [2]	62.1	30-150		11/18/24 23:18

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1221 [1]	ND	0.083	0.038	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1232 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1242 [1]	ND	0.083	0.023	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1248 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1254 [1]	ND	0.083	0.025	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1260 [2]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1262 [1]	ND	0.083	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW
Aroclor-1268 [1]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:18	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.8	30-150		11/22/24 14:18
Decachlorobiphenyl [2]	62.7	30-150		11/22/24 14:18
Tetrachloro-m-xylene [1]	84.4	30-150		11/22/24 14:18
Tetrachloro-m-xylene [2]	82.3	30-150		11/22/24 14:18

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4800	17	5.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Antimony	ND	1.7	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Arsenic	4.0	3.4	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Barium	30	1.7	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Beryllium	0.32	0.17	0.052	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Cadmium	ND	0.34	0.16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Calcium	1600	17	8.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Chromium	13	0.68	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Cobalt	5.6	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Copper	18	1.4	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Iron	9700	17	7.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Lead	5.4	0.51	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Magnesium	3200	17	4.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Manganese	240	0.34	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Mercury	ND	0.025	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:59	MJH
Nickel	34	0.68	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Potassium	1200	170	42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:27	HNN
Selenium	ND	3.4	0.85	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:27	HNN
Sodium	530	170	51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Thallium	ND	1.7	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Vanadium	14	0.68	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN
Zinc	22	0.68	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:38	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z11-12 Sampled: 10/31/2024 12:00

Sample ID: 24K0174-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6			% Wt	1		SM 2540G	11/7/24	11/7/24 13:12	MLR/MEF
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	0.044	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0037	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Benzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Bromochloromethane	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Bromodichloromethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Bromoform	ND	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Bromomethane	ND	0.0085	0.0015	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
2-Butanone (MEK)	ND	0.034	0.0072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Butyl Alcohol (TBA)	ND	0.085	0.035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
n-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
sec-Butylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Carbon Disulfide	ND	0.017	0.0086	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Carbon Tetrachloride	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Chlorobenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Chlorodibromomethane	ND	0.00085	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Chloroform	ND	0.0034	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Chloromethane	ND	0.0085	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Cyclohexane	ND	0.0085	0.0035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1-Dichloroethane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2-Dichloroethane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1-Dichloroethylene	ND	0.0034	0.00082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2-Dichloropropane	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
cis-1,3-Dichloropropene	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
trans-1,3-Dichloropropene	ND	0.00085	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Ethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
2-Hexanone (MBK)	ND	0.017	0.0059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Methyl Cyclohexane	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Methylene Chloride	ND	0.017	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Naphthalene	ND	0.0034	0.00084	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
n-Propylbenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Styrene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Tetrachloroethylene	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Toluene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Trichloroethylene	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	0.00089	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Vinyl Chloride	ND	0.0085	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
o-Xylene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 9:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/6/24 9:48
Toluene-d8	100	70-130		11/6/24 9:48
4-Bromofluorobenzene	97.7	70-130		11/6/24 9:48

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 9:48	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Atrazine	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Caprolactam	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Acenaphthene	ND	0.18	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Acenaphthylene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Aniline	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Anthracene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzo(a)anthracene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzo(a)pyrene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzo(b)fluoranthene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzo(g,h,i)perylene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Benzo(k)fluoranthene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Carbazole	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Chloroaniline	ND	0.72	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Chloronaphthalene	ND	0.37	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Chrysene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Dibenz(a,h)anthracene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
3,3-Dichlorobenzidine	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4-Dimethylphenol	ND	0.37	0.085	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4-Dinitrophenol	ND	0.72	0.28	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4-Dinitrotoluene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Di-n-octylphthalate	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Fluoranthene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Fluorene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Indeno(1,2,3-cd)pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Isophorone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
1-Methylnaphthalene	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Methylnaphthalene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Naphthalene	ND	0.18	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Phenanthrene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Pyrene	ND	0.18	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 14:40	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.7	30-130		11/13/24 14:40
Phenol-d6	61.5	30-130		11/13/24 14:40
Nitrobenzene-d5	63.9	30-130		11/13/24 14:40
2-Fluorobiphenyl	57.3	30-130		11/13/24 14:40
2,4,6-Tribromophenol	67.8	30-130		11/13/24 14:40
p-Terphenyl-d14	68.0	30-130		11/13/24 14:40

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.054	0.043	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 10:45	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	41.5	15-110					11/15/24 10:45

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.072	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.048	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:08	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	97.4	8-130		12/3/24 23:08
13C5-PFPeA	99.6	35-130		12/3/24 23:08
13C5-PFHxA	99.5	40-130		12/3/24 23:08
13C4-PFHpA	99.1	40-130		12/3/24 23:08
13C8-PFOA	102	40-130		12/3/24 23:08
13C9-PFNA	98.2	40-130		12/3/24 23:08
13C6-PFDA	96.7	40-130		12/3/24 23:08
13C7-PFUnA	106	40-130		12/3/24 23:08
13C2-PFDoA	104	40-130		12/3/24 23:08
13C2-PFTeDA	99.0	20-130		12/3/24 23:08
13C3-PFBS	99.9	40-135		12/3/24 23:08
13C3-PFHxS	93.3	40-130		12/3/24 23:08
13C8-PFOS	98.2	40-130		12/3/24 23:08
13C2-4:2FTS	102	40-165		12/3/24 23:08
13C2-6:2FTS	104	40-215		12/3/24 23:08
13C2-8:2FTS	109	40-275		12/3/24 23:08
13C8-PFOSA	90.4	40-130		12/3/24 23:08
D3-NMeFOSA	87.6	10-130		12/3/24 23:08
D5-NEtFOSA	88.0	10-130		12/3/24 23:08
D3-NMeFOSAA	99.4	40-135		12/3/24 23:08
D5-NEtFOSAA	96.6	40-150		12/3/24 23:08
D7-NMeFOSE	94.6	20-130		12/3/24 23:08
D9-NEtFOSE	95.0	15-130		12/3/24 23:08
13C3-HFPO-DA	103	40-130		12/3/24 23:08

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Hexen-2-one	1.5	mg/Kg dry	374772	3.492	1	000763-93-9	91	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Heptane, 2,3-dimethyl-	0.13	mg/Kg dry	33201	3.937	1	003074-71-3	83	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Heptane, 2,4-dimethyl-	0.16	mg/Kg dry	38635	3.68	1	002213-23-2	91	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Heptane, 2,6-dimethyl-	0.14	mg/Kg dry	34635	3.737	1	001072-05-5	91	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
Heptane, 3,5-dimethyl-	0.47	mg/Kg dry	117189	3.783	1	000926-82-9	90	SW-846 8270E	11/11/24	11/13/24 14:40	KMC
n-Hexadecanoic acid	0.15	mg/Kg dry	57531	8.062	1	000057-10-3	99	SW-846 8270E	11/11/24	11/13/24 14:40	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
gamma-Chlordane [1]	ND	0.0054	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Aldrin [1]	ND	0.0054	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
alpha-BHC [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
beta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
delta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
4,4'-DDD [1]	ND	0.0043	0.00092	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
4,4'-DDE [1]	ND	0.0043	0.00048	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
4,4'-DDT [1]	ND	0.0043	0.00056	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Dieldrin [1]	ND	0.0043	0.00051	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endosulfan I [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endosulfan II [1]	ND	0.0086	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endosulfan sulfate [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endrin [1]	ND	0.0086	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endrin aldehyde [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Endrin ketone [1]	ND	0.0086	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Heptachlor [1]	ND	0.0054	0.00059	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Heptachlor epoxide [1]	ND	0.0054	0.00063	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Methoxychlor [1]	ND	0.054	0.0064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG
Toxaphene [2]	ND	0.11	0.052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.1	30-150		11/18/24 23:30
Decachlorobiphenyl [2]	71.6	30-150		11/18/24 23:30
Tetrachloro-m-xylene [1]	65.4	30-150		11/18/24 23:30
Tetrachloro-m-xylene [2]	68.0	30-150		11/18/24 23:30

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1221 [1]	ND	0.082	0.038	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1232 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1242 [1]	ND	0.082	0.023	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1248 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1254 [1]	ND	0.082	0.024	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1260 [1]	ND	0.082	0.017	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1262 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW
Aroclor-1268 [1]	ND	0.082	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:35	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.0	30-150		11/22/24 14:35
Decachlorobiphenyl [2]	50.6	30-150		11/22/24 14:35
Tetrachloro-m-xylene [1]	67.2	30-150		11/22/24 14:35
Tetrachloro-m-xylene [2]	64.8	30-150		11/22/24 14:35

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5600	18	5.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Arsenic	4.1	3.6	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Barium	40	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Beryllium	0.37	0.18	0.054	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Calcium	1400	18	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Chromium	16	0.72	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Cobalt	4.9	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Copper	15	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Iron	12000	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Lead	5.9	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Magnesium	2700	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Manganese	290	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Mercury	ND	0.025	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:01	MJH
Nickel	13	0.72	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Potassium	1200	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:35	HNN
Selenium	ND	3.6	0.89	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:35	HNN
Sodium	660	180	53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Vanadium	15	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN
Zinc	23	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:46	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z24-25 Sampled: 10/31/2024 12:20

Sample ID: 24K0174-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7			% Wt	1		SM 2540G	11/7/24	11/7/24 13:12	MLR/MEF
Cyanide	ND	0.51	0.39	mg/Kg dry	1		SW-846 9014	11/12/24	11/13/24 11:20	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	0.043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Benzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Bromochloromethane	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Bromodichloromethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Bromoform	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Bromomethane	ND	0.0082	0.0015	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
2-Butanone (MEK)	ND	0.033	0.0069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Butyl Alcohol (TBA)	ND	0.082	0.034	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
n-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
sec-Butylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Carbon Disulfide	ND	0.016	0.0083	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Carbon Tetrachloride	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Chlorobenzene	ND	0.0016	0.00040	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Chlorodibromomethane	ND	0.00082	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Chloromethane	ND	0.0082	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Cyclohexane	ND	0.0082	0.0033	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1-Dichloroethane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2-Dichloroethane	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1-Dichloroethylene	ND	0.0033	0.00079	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2-Dichloropropane	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
cis-1,3-Dichloropropene	ND	0.00082	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
trans-1,3-Dichloropropene	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Ethanol	ND	0.16	0.033	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
2-Hexanone (MBK)	ND	0.016	0.0056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Methyl Cyclohexane	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Methylene Chloride	ND	0.016	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Naphthalene	ND	0.0033	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
n-Propylbenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Styrene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Tetrachloroethylene	0.00077	0.0016	0.00072	mg/Kg dry	1	J	SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Toluene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Trichloroethylene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	0.00097	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0082	0.00086	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00079	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Vinyl Chloride	ND	0.0082	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.1	70-130		11/6/24 10:14
Toluene-d8	101	70-130		11/6/24 10:14
4-Bromofluorobenzene	97.9	70-130		11/6/24 10:14

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 10:14	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.74	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Atrazine	ND	0.74	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzaldehyde	ND	0.38	0.060	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Biphenyl	ND	0.74	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Caprolactam	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Acetophenone	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Aniline	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzo(g,h,i)perylene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Bromophenylphenylether	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Chloroaniline	ND	0.73	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Chloro-3-methylphenol	ND	0.73	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Chlorophenylphenylether	ND	0.38	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
3,3-Dichlorobenzidine	ND	0.19	0.081	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Diethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4-Dimethylphenol	ND	0.38	0.087	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4-Dinitrophenol	ND	0.73	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4-Dinitrotoluene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Di-n-octylphthalate	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Hexachlorobenzene	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Naphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
3-Nitroaniline	ND	0.38	0.078	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
4-Nitrophenol	ND	0.73	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4,5-Trichlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:04	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.6	30-130		11/13/24 15:04
Phenol-d6	68.6	30-130		11/13/24 15:04
Nitrobenzene-d5	73.3	30-130		11/13/24 15:04
2-Fluorobiphenyl	67.4	30-130		11/13/24 15:04
2,4,6-Tribromophenol	77.6	30-130		11/13/24 15:04
p-Terphenyl-d14	76.5	30-130		11/13/24 15:04

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.054	0.042	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 11:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	37.1	15-110		11/15/24 11:06	

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:17	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	76.9	8-130		12/3/24 23:17
13C5-PFPeA	83.8	35-130		12/3/24 23:17
13C5-PFHxA	83.2	40-130		12/3/24 23:17
13C4-PFHpA	82.9	40-130		12/3/24 23:17
13C8-PFOA	85.3	40-130		12/3/24 23:17
13C9-PFNA	80.6	40-130		12/3/24 23:17
13C6-PFDA	82.3	40-130		12/3/24 23:17
13C7-PFUnA	86.7	40-130		12/3/24 23:17
13C2-PFDoA	81.0	40-130		12/3/24 23:17
13C2-PFTeDA	79.2	20-130		12/3/24 23:17
13C3-PFBS	84.9	40-135		12/3/24 23:17
13C3-PFHxS	83.9	40-130		12/3/24 23:17
13C8-PFOS	81.8	40-130		12/3/24 23:17
13C2-4:2FTS	82.5	40-165		12/3/24 23:17
13C2-6:2FTS	78.6	40-215		12/3/24 23:17
13C2-8:2FTS	85.5	40-275		12/3/24 23:17
13C8-PFOSA	74.2	40-130		12/3/24 23:17
D3-NMeFOSA	72.4	10-130		12/3/24 23:17
D5-NEtFOSA	75.3	10-130		12/3/24 23:17
D3-NMeFOSAA	83.7	40-135		12/3/24 23:17
D5-NEtFOSAA	82.2	40-150		12/3/24 23:17
D7-NMeFOSE	78.9	20-130		12/3/24 23:17
D9-NEtFOSE	79.8	15-130		12/3/24 23:17
13C3-HFPO-DA	85.1	40-130		12/3/24 23:17

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Hexen-2-one	1.9	mg/Kg dry	431261	3.492	1	000763-93-9	91	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Heptane, 2,3-dimethyl-	0.18	mg/Kg dry	41929	3.934	1	003074-71-3	80	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Heptane, 2,4-dimethyl-	0.18	mg/Kg dry	41326	3.68	1	002213-23-2	87	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Heptane, 2,5-dimethyl-	0.54	mg/Kg dry	125232	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
Heptane, 2,6-dimethyl-	0.16	mg/Kg dry	37926	3.736	1	001072-05-5	86	SW-846 8270E	11/11/24	11/13/24 15:04	KMC
n-Hexadecanoic acid	0.11	mg/Kg dry	38443	8.062	1	000057-10-3	98	SW-846 8270E	11/11/24	11/13/24 15:04	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
gamma-Chlordane [1]	ND	0.0055	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Aldrin [1]	ND	0.0055	0.00054	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
alpha-BHC [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
beta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
delta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
4,4'-DDD [1]	ND	0.0044	0.00093	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
4,4'-DDE [1]	ND	0.0044	0.00049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
4,4'-DDT [1]	ND	0.0044	0.00056	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Dieldrin [1]	ND	0.0044	0.00052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endosulfan I [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endosulfan II [1]	ND	0.0088	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endosulfan sulfate [1]	ND	0.0088	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endrin [1]	ND	0.0088	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endrin aldehyde [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Endrin ketone [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Heptachlor [1]	ND	0.0055	0.00060	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Heptachlor epoxide [1]	ND	0.0055	0.00064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Methoxychlor [1]	ND	0.055	0.0065	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG
Toxaphene [2]	ND	0.11	0.053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		11/18/24 23:42
Decachlorobiphenyl [2]	84.1	30-150		11/18/24 23:42
Tetrachloro-m-xylene [1]	71.8	30-150		11/18/24 23:42
Tetrachloro-m-xylene [2]	75.0	30-150		11/18/24 23:42

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1254 [1]	ND	0.088	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:18	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.9	30-150		11/15/24 14:18
Decachlorobiphenyl [2]	57.8	30-150		11/15/24 14:18
Tetrachloro-m-xylene [1]	47.2	30-150		11/15/24 14:18
Tetrachloro-m-xylene [2]	48.9	30-150		11/15/24 14:18

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Arsenic	3.7	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Barium	38	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Beryllium	0.39	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Calcium	1600	18	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Chromium	13	0.72	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Cobalt	4.9	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Copper	15	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Iron	11000	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Lead	5.7	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Magnesium	3000	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Manganese	280	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:03	MJH
Nickel	10	0.72	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Potassium	1100	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:43	HNN
Selenium	ND	3.6	0.89	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:43	HNN
Sodium	620	180	53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Vanadium	19	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN
Zinc	22	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 23:54	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35 Sampled: 10/31/2024 12:30

Sample ID: 24K0174-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.9			% Wt	1		SM 2540G	11/7/24	11/7/24 13:12	MLR/MEF
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/13/24	11/14/24 12:30	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	0.042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Benzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Bromochloromethane	ND	0.0016	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Bromodichloromethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Bromoform	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Bromomethane	ND	0.0081	0.0014	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
2-Butanone (MEK)	ND	0.032	0.0068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Butyl Alcohol (TBA)	ND	0.081	0.033	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
n-Butylbenzene	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
sec-Butylbenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Butylbenzene	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Carbon Disulfide	ND	0.016	0.0081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Carbon Tetrachloride	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Chlorobenzene	ND	0.0016	0.00039	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Chlorodibromomethane	ND	0.00081	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Chloroform	ND	0.0032	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Chloromethane	ND	0.0081	0.00098	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Cyclohexane	ND	0.0081	0.0033	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1-Dichloroethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2-Dichloroethane	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1-Dichloroethylene	ND	0.0032	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2-Dichloropropane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
cis-1,3-Dichloropropene	ND	0.00081	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
trans-1,3-Dichloropropene	ND	0.00081	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Ethanol	ND	0.16	0.032	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
2-Hexanone (MBK)	ND	0.016	0.0055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Methyl Cyclohexane	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Methylene Chloride	ND	0.016	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Naphthalene	ND	0.0032	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
n-Propylbenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Styrene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Tetrachloroethylene	ND	0.0016	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Toluene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Trichloroethylene	ND	0.0016	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	0.00095	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0081	0.00085	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Vinyl Chloride	ND	0.0081	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
m+p Xylene	ND	0.0032	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 10:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		11/6/24 10:39
Toluene-d8	102	70-130		11/6/24 10:39
4-Bromofluorobenzene	96.8	70-130		11/6/24 10:39

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 10:39	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzaldehyde	ND	0.38	0.060	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Acetophenone	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzo(g,h,i)perylene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Chloro-3-methylphenol	ND	0.74	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Chlorophenylphenylether	ND	0.38	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Diethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4-Dimethylphenol	ND	0.38	0.087	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4-Dinitrotoluene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Hexachlorobenzene	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Naphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:28	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.7	30-130		11/13/24 15:28
Phenol-d6	65.8	30-130		11/13/24 15:28
Nitrobenzene-d5	68.7	30-130		11/13/24 15:28
2-Fluorobiphenyl	60.6	30-130		11/13/24 15:28
2,4,6-Tribromophenol	70.6	30-130		11/13/24 15:28
p-Terphenyl-d14	79.0	30-130		11/13/24 15:28

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.055	0.043	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 11:27	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	46.6	15-110					11/15/24 11:27

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:26	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	111	8-130		12/3/24 23:26
13C5-PFPeA	113	35-130		12/3/24 23:26
13C5-PFHxA	113	40-130		12/3/24 23:26
13C4-PFHpA	110	40-130		12/3/24 23:26
13C8-PFOA	112	40-130		12/3/24 23:26
13C9-PFNA	118	40-130		12/3/24 23:26
13C6-PFDA	117	40-130		12/3/24 23:26
13C7-PFUnA	124	40-130		12/3/24 23:26
13C2-PFDoA	117	40-130		12/3/24 23:26
13C2-PFTeDA	115	20-130		12/3/24 23:26
13C3-PFBS	109	40-135		12/3/24 23:26
13C3-PFHxS	104	40-130		12/3/24 23:26
13C8-PFOS	117	40-130		12/3/24 23:26
13C2-4:2FTS	99.7	40-165		12/3/24 23:26
13C2-6:2FTS	111	40-215		12/3/24 23:26
13C2-8:2FTS	102	40-275		12/3/24 23:26
13C8-PFOSA	102	40-130		12/3/24 23:26
D3-NMeFOSA	102	10-130		12/3/24 23:26
D5-NEtFOSA	102	10-130		12/3/24 23:26
D3-NMeFOSAA	113	40-135		12/3/24 23:26
D5-NEtFOSAA	112	40-150		12/3/24 23:26
D7-NMeFOSE	108	20-130		12/3/24 23:26
D9-NEtFOSE	109	15-130		12/3/24 23:26
13C3-HFPO-DA	117	40-130		12/3/24 23:26

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.1	mg/Kg dry	305663	3.492	1	000141-79-7	91	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Heptane, 2,3-dimethyl-	0.19	mg/Kg dry	50058	3.934	1	003074-71-3	91	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Heptane, 2,4-dimethyl-	0.17	mg/Kg dry	46266	3.68	1	002213-23-2	83	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Heptane, 2,6-dimethyl-	0.15	mg/Kg dry	40628	3.736	1	001072-05-5	90	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Hexane, 2,3,5-trimethyl-	0.081	mg/Kg dry	21845	3.628	1	001069-53-0	90	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
n-Hexadecanoic acid	0.14	mg/Kg dry	56618	8.062	1	000057-10-3	97	SW-846 8270E	11/11/24	11/13/24 15:28	KMC
Octane, 3-methyl-	0.48	mg/Kg dry	129440	3.783	1	002216-33-3	87	SW-846 8270E	11/11/24	11/13/24 15:28	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
gamma-Chlordane [1]	ND	0.0055	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Aldrin [1]	ND	0.0055	0.00054	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
alpha-BHC [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
beta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
delta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
4,4'-DDD [1]	ND	0.0044	0.00094	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
4,4'-DDE [1]	ND	0.0044	0.00049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
4,4'-DDT [1]	ND	0.0044	0.00057	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Dieldrin [1]	ND	0.0044	0.00052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endosulfan I [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endosulfan II [1]	ND	0.0088	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endosulfan sulfate [1]	ND	0.0088	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endrin [1]	ND	0.0088	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endrin aldehyde [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Endrin ketone [1]	ND	0.0088	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Heptachlor [1]	ND	0.0055	0.00061	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Heptachlor epoxide [1]	ND	0.0055	0.00064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Methoxychlor [1]	ND	0.055	0.0065	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG
Toxaphene [2]	ND	0.11	0.053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/18/24 23:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		11/18/24 23:54
Decachlorobiphenyl [2]	87.3	30-150		11/18/24 23:54
Tetrachloro-m-xylene [1]	73.3	30-150		11/18/24 23:54
Tetrachloro-m-xylene [2]	76.6	30-150		11/18/24 23:54

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1254 [1]	ND	0.088	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 14:35	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.1	30-150		11/15/24 14:35
Decachlorobiphenyl [2]	53.7	30-150		11/15/24 14:35
Tetrachloro-m-xylene [1]	32.3	30-150		11/15/24 14:35
Tetrachloro-m-xylene [2]	45.6	30-150		11/15/24 14:35

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4500	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Arsenic	3.4	3.6	0.51	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Barium	31	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Beryllium	0.32	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Calcium	1200	18	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Chromium	9.8	0.72	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Cobalt	4.0	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Copper	14	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Iron	9200	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Lead	5.1	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Magnesium	2500	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Manganese	320	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Mercury	ND	0.025	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:10	MJH
Nickel	8.6	0.72	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Potassium	850	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:50	HNN
Selenium	ND	3.6	0.89	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 17:50	HNN
Sodium	580	180	53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Vanadium	16	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN
Zinc	19	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:02	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z34-35Q Sampled: 10/31/2024 12:35

Sample ID: 24K0174-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5			% Wt	1		SM 2540G	11/7/24	11/7/24 13:12	MLR/MEF
Cyanide	ND	0.51	0.38	mg/Kg dry	1		SW-846 9014	11/13/24	11/14/24 12:30	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Benzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Bromochloromethane	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Bromodichloromethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Bromoform	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
2-Butanone (MEK)	ND	0.040	0.0084	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.041	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
n-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
sec-Butylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00086	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Carbon Tetrachloride	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Chlorobenzene	ND	0.0020	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Chlorodibromomethane	ND	0.0010	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Chloroform	ND	0.0040	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.00081	mg/Kg dry	1	R-06	SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1-Dichloroethylene	ND	0.0040	0.00095	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2-Dichloropropane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	MS-07A, V-05	SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Ethylbenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
2-Hexanone (MBK)	ND	0.020	0.0068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00088	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Methyl Cyclohexane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Methylene Chloride	ND	0.020	0.00093	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0088	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Naphthalene	ND	0.0040	0.00098	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
n-Propylbenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Styrene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Tetrachloroethylene	0.0042	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Toluene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Trichloroethylene	ND	0.0020	0.00075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00096	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Vinyl Chloride	ND	0.010	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
m+p Xylene	ND	0.0040	0.0014	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
o-Xylene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 7:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/6/24 7:41
Toluene-d8	100	70-130		11/6/24 7:41
4-Bromofluorobenzene	97.1	70-130		11/6/24 7:41

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 7:41	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Atrazine	ND	0.78	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzaldehyde	ND	0.39	0.063	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Biphenyl	ND	0.78	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Caprolactam	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Acenaphthene	ND	0.20	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Acenaphthylene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Anthracene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzo(a)anthracene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzo(a)pyrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzo(b)fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzo(g,h,i)perylene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Benzo(k)fluoranthene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Chloroaniline	ND	0.76	0.070	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Chlorophenylphenylether	ND	0.39	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Chrysene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
3,3-Dichlorobenzidine	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4-Dimethylphenol	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Di-n-octylphthalate	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Fluorene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Methylphenol	ND	0.39	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
3-Nitroaniline	ND	0.39	0.082	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Nitrobenzene	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Phenol	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Pyrene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Pyridine	ND	0.39	0.046	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 15:52	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.9	30-130		11/13/24 15:52
Phenol-d6	66.5	30-130		11/13/24 15:52
Nitrobenzene-d5	69.5	30-130		11/13/24 15:52
2-Fluorobiphenyl	62.1	30-130		11/13/24 15:52
2,4,6-Tribromophenol	66.7	30-130		11/13/24 15:52
p-Terphenyl-d14	80.7	30-130		11/13/24 15:52

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 11:48	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	28.1	15-110					11/15/24 11:48

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:35	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	117	8-130		12/3/24 23:35
13C5-PFPeA	120	35-130		12/3/24 23:35
13C5-PFHxA	122	40-130		12/3/24 23:35
13C4-PFHpA	116	40-130		12/3/24 23:35
13C8-PFOA	125	40-130		12/3/24 23:35
13C9-PFNA	122	40-130		12/3/24 23:35
13C6-PFDA	122	40-130		12/3/24 23:35
13C7-PFUnA	122	40-130		12/3/24 23:35
13C2-PFDoA	125	40-130		12/3/24 23:35
13C2-PFTeDA	117	20-130		12/3/24 23:35
13C3-PFBS	114	40-135		12/3/24 23:35
13C3-PFHxS	116	40-130		12/3/24 23:35
13C8-PFOS	120	40-130		12/3/24 23:35
13C2-4:2FTS	124	40-165		12/3/24 23:35
13C2-6:2FTS	119	40-215		12/3/24 23:35
13C2-8:2FTS	122	40-275		12/3/24 23:35
13C8-PFOSA	107	40-130		12/3/24 23:35
D3-NMeFOSA	98.7	10-130		12/3/24 23:35
D5-NEtFOSA	104	10-130		12/3/24 23:35
D3-NMeFOSAA	117	40-135		12/3/24 23:35
D5-NEtFOSAA	120	40-150		12/3/24 23:35
D7-NMeFOSE	109	20-130		12/3/24 23:35
D9-NEtFOSE	106	15-130		12/3/24 23:35
13C3-HFPO-DA	127	40-130		12/3/24 23:35

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.2	mg/Kg dry	311975	3.492	1	000141-79-7	91	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Heptane, 2,3-dimethyl-	0.18	mg/Kg dry	46780	3.937	1	003074-71-3	91	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Heptane, 2,4-dimethyl-	0.16	mg/Kg dry	41549	3.68	1	002213-23-2	86	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Heptane, 2,5-dimethyl-	0.43	mg/Kg dry	116021	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
Heptane, 2,6-dimethyl-	0.14	mg/Kg dry	37689	3.737	1	001072-05-5	91	SW-846 8270E	11/11/24	11/13/24 15:52	KMC
n-Hexadecanoic acid	0.11	mg/Kg dry	45810	8.062	1	000057-10-3	99	SW-846 8270E	11/11/24	11/13/24 15:52	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0058	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
gamma-Chlordane [1]	ND	0.0058	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Aldrin [1]	ND	0.0058	0.00057	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
alpha-BHC [1]	ND	0.0058	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
beta-BHC [1]	ND	0.0058	0.0031	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
delta-BHC [1]	ND	0.0058	0.0031	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
4,4'-DDD [1]	ND	0.0046	0.00098	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
4,4'-DDE [1]	ND	0.0046	0.00051	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
4,4'-DDT [1]	ND	0.0046	0.00059	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Dieldrin [1]	ND	0.0046	0.00055	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endosulfan I [1]	ND	0.0058	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endosulfan II [1]	ND	0.0092	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endosulfan sulfate [1]	ND	0.0092	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endrin [1]	ND	0.0092	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endrin aldehyde [1]	ND	0.0092	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Endrin ketone [1]	ND	0.0092	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Heptachlor [1]	ND	0.0058	0.00063	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Heptachlor epoxide [1]	ND	0.0058	0.00067	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Methoxychlor [1]	ND	0.058	0.0068	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG
Toxaphene [2]	ND	0.12	0.055	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.6	30-150		11/19/24 0:05
Decachlorobiphenyl [2]	84.6	30-150		11/19/24 0:05
Tetrachloro-m-xylene [1]	73.1	30-150		11/19/24 0:05
Tetrachloro-m-xylene [2]	76.9	30-150		11/19/24 0:05

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1221 [1]	ND	0.086	0.040	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1232 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1242 [1]	ND	0.086	0.024	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1248 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1254 [1]	ND	0.086	0.026	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1260 [1]	ND	0.086	0.018	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1262 [1]	ND	0.086	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW
Aroclor-1268 [1]	ND	0.086	0.023	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 14:53	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.7	30-150		11/22/24 14:53
Decachlorobiphenyl [2]	57.9	30-150		11/22/24 14:53
Tetrachloro-m-xylene [1]	81.1	30-150		11/22/24 14:53
Tetrachloro-m-xylene [2]	78.7	30-150		11/22/24 14:53

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2800	19	5.9	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Antimony	ND	1.9	0.50	mg/Kg dry	1	MS-07A	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Arsenic	2.5	3.7	0.53	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Barium	29	1.9	0.40	mg/Kg dry	1	MS-22	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Beryllium	0.19	0.19	0.057	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Cadmium	ND	0.37	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Calcium	6200	19	9.7	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Chromium	5.3	0.75	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Cobalt	2.8	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Copper	8.3	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Iron	6600	19	8.6	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Lead	3.3	0.56	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Magnesium	2500	19	4.4	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Manganese	190	0.37	0.21	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Mercury	ND	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:56	MJH
Nickel	7.6	0.75	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Potassium	500	190	46	mg/Kg dry	1	MS-07A	SW-846 6010D	11/6/24	11/11/24 16:05	HNN
Selenium	ND	3.7	0.93	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 16:05	HNN
Sodium	110	190	55	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Thallium	ND	1.9	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Vanadium	8.4	0.75	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN
Zinc	15	0.75	0.66	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 22:17	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-05-Z44-45 Sampled: 10/31/2024 12:50

Sample ID: 24K0174-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3			% Wt	1		SM 2540G	11/7/24	11/7/24 13:12	MLR/MEF
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/13/24	11/14/24 12:30	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	0.042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Benzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Bromochloromethane	ND	0.0016	0.00070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Bromodichloromethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Bromoform	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Bromomethane	ND	0.0082	0.0014	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
2-Butanone (MEK)	ND	0.033	0.0069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.082	0.034	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
n-Butylbenzene	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
sec-Butylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Butylbenzene	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Carbon Disulfide	ND	0.016	0.0082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Carbon Tetrachloride	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Chlorobenzene	ND	0.0016	0.00039	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Chlorodibromomethane	ND	0.00082	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Chloroform	ND	0.0033	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Chloromethane	ND	0.0082	0.00099	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Cyclohexane	ND	0.0082	0.0033	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1-Dichloroethane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2-Dichloroethane	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1-Dichloroethylene	ND	0.0033	0.00078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2-Dichloropropane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
cis-1,3-Dichloropropene	ND	0.00082	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
trans-1,3-Dichloropropene	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Ethanol	ND	0.16	0.033	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
2-Hexanone (MBK)	ND	0.016	0.0056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Methyl Cyclohexane	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Methylene Chloride	ND	0.016	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Naphthalene	ND	0.0033	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
n-Propylbenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Styrene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Tetrachloroethylene	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Toluene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Trichloroethylene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	0.00096	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0082	0.00086	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00079	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Vinyl Chloride	ND	0.0082	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.4	70-130		11/6/24 11:05
Toluene-d8	100	70-130		11/6/24 11:05
4-Bromofluorobenzene	99.0	70-130		11/6/24 11:05

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 11:05	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzo(g,h,i)perylene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Chlorophenylphenylether	ND	0.38	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4-Dinitrotoluene	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:16	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.7	30-130		11/13/24 16:16
Phenol-d6	66.9	30-130		11/13/24 16:16
Nitrobenzene-d5	70.8	30-130		11/13/24 16:16
2-Fluorobiphenyl	63.9	30-130		11/13/24 16:16
2,4,6-Tribromophenol	75.6	30-130		11/13/24 16:16
p-Terphenyl-d14	81.6	30-130		11/13/24 16:16

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.055	0.044	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 12:49	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	49.6	15-110					11/15/24 12:49

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.13	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.083	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorooctanesulfonic acid (PFOS)	0.063	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.065	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.058	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.30	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:44	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	116	8-130		12/3/24 23:44
13C5-PFPeA	117	35-130		12/3/24 23:44
13C5-PFHxA	118	40-130		12/3/24 23:44
13C4-PFHpA	119	40-130		12/3/24 23:44
13C8-PFOA	121	40-130		12/3/24 23:44
13C9-PFNA	122	40-130		12/3/24 23:44
13C6-PFDA	123	40-130		12/3/24 23:44
13C7-PFUnA	129	40-130		12/3/24 23:44
13C2-PFDoA	123	40-130		12/3/24 23:44
13C2-PFTeDA	115	20-130		12/3/24 23:44
13C3-PFBS	118	40-135		12/3/24 23:44
13C3-PFHxS	128	40-130		12/3/24 23:44
13C8-PFOS	119	40-130		12/3/24 23:44
13C2-4:2FTS	128	40-165		12/3/24 23:44
13C2-6:2FTS	124	40-215		12/3/24 23:44
13C2-8:2FTS	119	40-275		12/3/24 23:44
13C8-PFOSA	109	40-130		12/3/24 23:44
D3-NMeFOSA	102	10-130		12/3/24 23:44
D5-NEtFOSA	106	10-130		12/3/24 23:44
D3-NMeFOSAA	113	40-135		12/3/24 23:44
D5-NEtFOSAA	108	40-150		12/3/24 23:44
D7-NMeFOSE	110	20-130		12/3/24 23:44
D9-NEtFOSE	108	15-130		12/3/24 23:44
13C3-HFPO-DA	123	40-130		12/3/24 23:44

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.2	mg/Kg dry	315728	3.492	1	000141-79-7	91	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Heptane, 2,3-dimethyl-	0.19	mg/Kg dry	50831	3.934	1	003074-71-3	90	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Heptane, 2,4-dimethyl-	0.18	mg/Kg dry	48010	3.68	1	002213-23-2	83	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Heptane, 2,5-dimethyl-	0.48	mg/Kg dry	128243	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
Heptane, 2,6-dimethyl-	0.14	mg/Kg dry	38948	3.736	1	001072-05-5	83	SW-846 8270E	11/11/24	11/13/24 16:16	KMC
n-Hexadecanoic acid	0.13	mg/Kg dry	52518	8.062	1	000057-10-3	96	SW-846 8270E	11/11/24	11/13/24 16:16	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
gamma-Chlordane [1]	ND	0.0056	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Aldrin [1]	ND	0.0056	0.00055	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
alpha-BHC [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
beta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
delta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
4,4'-DDD [1]	ND	0.0045	0.00095	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
4,4'-DDE [1]	ND	0.0045	0.00049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
4,4'-DDT [1]	ND	0.0045	0.00057	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Dieldrin [1]	ND	0.0045	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endosulfan I [1]	ND	0.0056	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endosulfan II [1]	ND	0.0089	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endosulfan sulfate [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endrin [1]	ND	0.0089	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endrin aldehyde [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Endrin ketone [1]	ND	0.0089	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Heptachlor [1]	ND	0.0056	0.00061	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Heptachlor epoxide [1]	ND	0.0056	0.00065	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Methoxychlor [1]	ND	0.056	0.0066	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG
Toxaphene [2]	ND	0.11	0.053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	73.9	30-150		11/19/24	0:17
Decachlorobiphenyl [2]	72.0	30-150		11/19/24	0:17
Tetrachloro-m-xylene [1]	60.5	30-150		11/19/24	0:17
Tetrachloro-m-xylene [2]	63.2	30-150		11/19/24	0:17

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1221 [1]	ND	0.084	0.039	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1232 [1]	ND	0.084	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1242 [1]	ND	0.084	0.023	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1248 [1]	ND	0.084	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1254 [1]	ND	0.084	0.025	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1260 [1]	ND	0.084	0.018	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1262 [1]	ND	0.084	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW
Aroclor-1268 [1]	ND	0.084	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:11	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.5	30-150		11/22/24 15:11
Decachlorobiphenyl [2]	52.9	30-150		11/22/24 15:11
Tetrachloro-m-xylene [1]	74.7	30-150		11/22/24 15:11
Tetrachloro-m-xylene [2]	72.1	30-150		11/22/24 15:11

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	18	5.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Antimony	ND	1.8	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Arsenic	4.1	3.7	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Barium	38	1.8	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Beryllium	0.38	0.18	0.056	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Cadmium	ND	0.37	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Calcium	1300	18	9.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Chromium	15	0.74	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Cobalt	5.9	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Copper	14	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Iron	11000	18	8.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Lead	6.9	0.55	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Magnesium	2100	18	4.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Manganese	230	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Mercury	ND	0.025	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:11	MJH
Nickel	19	0.74	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Potassium	1000	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:11	HNN
Selenium	ND	3.7	0.91	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:11	HNN
Sodium	120	180	55	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Thallium	ND	1.8	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Vanadium	17	0.74	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN
Zinc	23	0.74	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:09	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z17-18 Sampled: 11/1/2024 14:30

Sample ID: 24K0174-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/13/24	11/14/24 12:30	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	0.043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00083	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Benzene	0.0045	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Bromochloromethane	ND	0.0017	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Bromoform	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Bromomethane	ND	0.0083	0.0015	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
2-Butanone (MEK)	ND	0.033	0.0070	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Butyl Alcohol (TBA)	ND	0.083	0.034	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
n-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
sec-Butylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Butylbenzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00083	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Carbon Disulfide	ND	0.017	0.0083	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Carbon Tetrachloride	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Chlorobenzene	ND	0.0017	0.00040	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Chlorodibromomethane	ND	0.00083	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Chloromethane	ND	0.0083	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Cyclohexane	ND	0.0083	0.0034	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1-Dichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2-Dichloroethane	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1-Dichloroethylene	ND	0.0033	0.00079	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2-Dichloropropane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
cis-1,3-Dichloropropene	ND	0.00083	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
trans-1,3-Dichloropropene	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00083	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Ethanol	ND	0.17	0.033	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Ethylbenzene	0.00083	0.0017	0.00048	mg/Kg dry	1	J	SW-846 8260D	11/6/24	11/6/24 11:30	MFF
2-Hexanone (MBK)	ND	0.017	0.0057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Methyl Cyclohexane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Methylene Chloride	ND	0.017	0.00078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Naphthalene	0.0010	0.0033	0.00082	mg/Kg dry	1	J	SW-846 8260D	11/6/24	11/6/24 11:30	MFF
n-Propylbenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Styrene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Tetrachloroethylene	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Toluene	0.0026	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Trichloroethylene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	0.00098	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0083	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Vinyl Chloride	ND	0.0083	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF
o-Xylene	0.00078	0.0017	0.00056	mg/Kg dry	1	J	SW-846 8260D	11/6/24	11/6/24 11:30	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/6/24 11:30
Toluene-d8	100	70-130		11/6/24 11:30
4-Bromofluorobenzene	97.4	70-130		11/6/24 11:30

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Propene, 2-methyl-	0.0067	mg/Kg dry	122339	1.462	1	000115-11-7	80	SW-846 8260D	11/6/24	11/6/24 11:30	MFF
2-Octanone	0.027	mg/Kg dry	679738	10.878	1	000111-13-7	94	SW-846 8260D	11/6/24	11/6/24 11:30	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Atrazine	ND	0.73	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Caprolactam	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Acenaphthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Acenaphthylene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Aniline	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzo(a)anthracene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzo(a)pyrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzo(g,h,i)perylene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Benzo(k)fluoranthene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Carbazole	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Chloroaniline	ND	0.72	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Chloronaphthalene	ND	0.37	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Chrysene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Dibenz(a,h)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
3,3-Dichlorobenzidine	ND	0.19	0.080	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4-Dimethylphenol	ND	0.37	0.085	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4-Dinitrophenol	ND	0.72	0.28	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4-Dinitrotoluene	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Di-n-octylphthalate	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Fluorene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Isophorone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
1-Methylnaphthalene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Methylphenol	ND	0.37	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Naphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 16:40	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.9	30-130		11/13/24 16:40
Phenol-d6	55.0	30-130		11/13/24 16:40
Nitrobenzene-d5	58.1	30-130		11/13/24 16:40
2-Fluorobiphenyl	50.7	30-130		11/13/24 16:40
2,4,6-Tribromophenol	55.4	30-130		11/13/24 16:40
p-Terphenyl-d14	62.5	30-130		11/13/24 16:40

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.052	0.041	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 13:09	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	41.6	15-110					11/15/24 13:09

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorobutanesulfonic acid (PFBS)	0.12	0.19	0.062	µg/kg dry	1	J, PF-23	Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/3/24 23:54	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	98.0	8-130		12/3/24 23:54
13C5-PFPeA	108	35-130		12/3/24 23:54
13C5-PFHxA	108	40-130		12/3/24 23:54
13C4-PFHpA	108	40-130		12/3/24 23:54
13C8-PFOA	107	40-130		12/3/24 23:54
13C9-PFNA	107	40-130		12/3/24 23:54
13C6-PFDA	116	40-130		12/3/24 23:54
13C7-PFUnA	119	40-130		12/3/24 23:54
13C2-PFDoA	121	40-130		12/3/24 23:54
13C2-PFTeDA	95.1	20-130		12/3/24 23:54
13C3-PFBS	103	40-135		12/3/24 23:54
13C3-PFHxS	106	40-130		12/3/24 23:54
13C8-PFOS	108	40-130		12/3/24 23:54
13C2-4:2FTS	139	40-165		12/3/24 23:54
13C2-6:2FTS	170	40-215		12/3/24 23:54
13C2-8:2FTS	137	40-275		12/3/24 23:54
13C8-PFOSA	101	40-130		12/3/24 23:54
D3-NMeFOSA	96.8	10-130		12/3/24 23:54
D5-NEtFOSA	108	10-130		12/3/24 23:54
D3-NMeFOSAA	102	40-135		12/3/24 23:54
D5-NEtFOSAA	117	40-150		12/3/24 23:54
D7-NMeFOSE	96.9	20-130		12/3/24 23:54
D9-NEtFOSE	85.6	15-130		12/3/24 23:54
13C3-HFPO-DA	113	40-130		12/3/24 23:54

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3,4-Octadiene, 7-methyl-	0.11	mg/Kg dry	45039	8.967	1	037050-05-8	87	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
3-Hexen-2-one	0.97	mg/Kg dry	256798	3.495	1	000763-93-9	91	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
9,12-Octadecadienoic acid (...	0.19	mg/Kg dry	75920	8.638	1	000060-33-3	99	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Furan, 2,5-dimethyl-	0.60	mg/Kg dry	158537	2.695	1	000625-86-5	86	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Heptane, 2,3-dimethyl-	0.16	mg/Kg dry	43446	3.937	1	003074-71-3	91	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Heptane, 2,5-dimethyl-	0.43	mg/Kg dry	114755	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Heptane, 2,6-dimethyl-	0.13	mg/Kg dry	35521	3.739	1	001072-05-5	91	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Heptanoic acid	0.097	mg/Kg dry	25727	5.097	1	000111-14-8	83	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
n-Hexadecanoic acid	0.24	mg/Kg dry	94093	8.062	1	000057-10-3	99	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Octadecanoic acid	0.12	mg/Kg dry	49126	8.725	1	000057-11-4	96	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Oxalic acid, isohexyl penty...	0.15	mg/Kg dry	41031	3.682	1	1000309-32-8	83	SW-846 8270E	11/11/24	11/13/24 16:40	KMC
Ricinoleic acid	1.1	mg/Kg dry	406221	9.432	1	000141-22-0	95	SW-846 8270E	11/11/24	11/13/24 16:40	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
gamma-Chlordane [1]	ND	0.0054	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Aldrin [1]	ND	0.0054	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
alpha-BHC [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
beta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
delta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
4,4'-DDD [1]	ND	0.0043	0.00092	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
4,4'-DDE [1]	ND	0.0043	0.00048	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
4,4'-DDT [1]	ND	0.0043	0.00056	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Dieldrin [1]	ND	0.0043	0.00052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endosulfan I [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endosulfan II [1]	ND	0.0087	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endosulfan sulfate [1]	ND	0.0087	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endrin [1]	ND	0.0087	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endrin aldehyde [1]	ND	0.0087	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Endrin ketone [1]	ND	0.0087	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Heptachlor [1]	ND	0.0054	0.00059	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Heptachlor epoxide [1]	ND	0.0054	0.00063	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Methoxychlor [1]	ND	0.054	0.0064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG
Toxaphene [2]	ND	0.11	0.052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	76.9	30-150		11/19/24	0:29
Decachlorobiphenyl [2]	75.5	30-150		11/19/24	0:29
Tetrachloro-m-xylene [1]	66.3	30-150		11/19/24	0:29
Tetrachloro-m-xylene [2]	69.5	30-150		11/19/24	0:29

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1254 [1]	ND	0.087	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1262 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:27	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.3	30-150		11/15/24 15:27
Decachlorobiphenyl [2]	56.7	30-150		11/15/24 15:27
Tetrachloro-m-xylene [1]	45.5	30-150		11/15/24 15:27
Tetrachloro-m-xylene [2]	47.7	30-150		11/15/24 15:27

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Arsenic	6.6	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Barium	130	1.8	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Beryllium	0.63	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Calcium	16000	18	9.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Chromium	23	0.73	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Cobalt	4.0	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Copper	26	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Iron	11000	18	8.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Lead	9.3	0.55	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Magnesium	5200	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Manganese	270	0.36	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Mercury	ND	0.024	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:13	MJH
Nickel	12	0.73	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Potassium	4300	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:19	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:19	HNN
Sodium	4100	180	54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Vanadium	23	0.73	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN
Zinc	31	0.73	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:17	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z28-29 Sampled: 11/1/2024 15:10

Sample ID: 24K0174-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1		SW-846 9014	11/13/24	11/14/24 12:30	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	0.044	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00084	0.00078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Benzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Bromochloromethane	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Bromoform	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Bromomethane	ND	0.0084	0.0015	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
2-Butanone (MEK)	ND	0.034	0.0071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.084	0.035	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
n-Butylbenzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
sec-Butylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Butylbenzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00084	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Carbon Disulfide	ND	0.017	0.0085	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Carbon Tetrachloride	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Chlorobenzene	ND	0.0017	0.00040	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Chlorodibromomethane	ND	0.00084	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Chloroform	ND	0.0034	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Chloromethane	ND	0.0084	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Cyclohexane	ND	0.0084	0.0034	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1-Dichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1-Dichloroethylene	ND	0.0034	0.00080	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2-Dichloropropane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
cis-1,3-Dichloropropene	ND	0.00084	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
trans-1,3-Dichloropropene	ND	0.00084	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Diisopropyl Ether (DIPE)	ND	0.00084	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Ethylbenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
2-Hexanone (MBK)	ND	0.017	0.0058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Methyl Cyclohexane	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Methylene Chloride	ND	0.017	0.00079	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0074	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Naphthalene	ND	0.0034	0.00083	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
n-Propylbenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Styrene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Tetrachloroethylene	0.0026	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Toluene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Trichloroethylene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	0.00099	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0084	0.00088	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00081	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Vinyl Chloride	ND	0.0084	0.00065	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
o-Xylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 11:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/6/24 11:56
Toluene-d8	99.0	70-130		11/6/24 11:56
4-Bromofluorobenzene	96.6	70-130		11/6/24 11:56

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 11:56	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Atrazine	ND	0.73	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Caprolactam	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Aniline	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzo(a)anthracene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzo(g,h,i)perylene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Chloroaniline	ND	0.72	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Chloronaphthalene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Chrysene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Dibenz(a,h)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
3,3-Dichlorobenzidine	ND	0.19	0.080	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4-Dimethylphenol	ND	0.37	0.086	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4-Dinitrophenol	ND	0.72	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4-Dinitrotoluene	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Di-n-octylphthalate	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Fluorene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Isophorone	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
1-Methylnaphthalene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Methylphenol	ND	0.37	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Naphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:04	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	58.9	30-130		11/13/24 17:04
Phenol-d6	62.8	30-130		11/13/24 17:04
Nitrobenzene-d5	66.8	30-130		11/13/24 17:04
2-Fluorobiphenyl	59.7	30-130		11/13/24 17:04
2,4,6-Tribromophenol	67.6	30-130		11/13/24 17:04
p-Terphenyl-d14	74.9	30-130		11/13/24 17:04

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.054	0.042	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 13:28	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	44.4	15-110					11/15/24 13:28

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorooctanoic acid (PFOA)	ND	0.19	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorononanoic acid (PFNA)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorodecanoic acid (PFDA)	ND	0.19	0.061	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.072	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.048	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.079	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.087	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.099	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.69	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:03	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	104	8-130		12/4/24 0:03
13C5-PFPeA	104	35-130		12/4/24 0:03
13C5-PFHxA	106	40-130		12/4/24 0:03
13C4-PFHpA	101	40-130		12/4/24 0:03
13C8-PFOA	113	40-130		12/4/24 0:03
13C9-PFNA	103	40-130		12/4/24 0:03
13C6-PFDA	109	40-130		12/4/24 0:03
13C7-PFUnA	111	40-130		12/4/24 0:03
13C2-PFDoA	107	40-130		12/4/24 0:03
13C2-PFTeDA	101	20-130		12/4/24 0:03
13C3-PFBS	105	40-135		12/4/24 0:03
13C3-PFHxS	106	40-130		12/4/24 0:03
13C8-PFOS	104	40-130		12/4/24 0:03
13C2-4:2FTS	117	40-165		12/4/24 0:03
13C2-6:2FTS	107	40-215		12/4/24 0:03
13C2-8:2FTS	107	40-275		12/4/24 0:03
13C8-PFOSA	89.7	40-130		12/4/24 0:03
D3-NMeFOSA	84.3	10-130		12/4/24 0:03
D5-NEtFOSA	87.1	10-130		12/4/24 0:03
D3-NMeFOSAA	99.8	40-135		12/4/24 0:03
D5-NEtFOSAA	98.1	40-150		12/4/24 0:03
D7-NMeFOSE	95.1	20-130		12/4/24 0:03
D9-NEtFOSE	94.2	15-130		12/4/24 0:03
13C3-HFPO-DA	108	40-130		12/4/24 0:03

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.1	mg/Kg dry	313142	3.495	1	000141-79-7	95	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Furan, 2,5-dimethyl-	0.60	mg/Kg dry	176738	2.695	1	000625-86-5	86	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Heptane, 2,3-dimethyl-	0.16	mg/Kg dry	48158	3.937	1	003074-71-3	90	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Heptane, 2,4-dimethyl-	0.15	mg/Kg dry	43094	3.683	1	002213-23-2	90	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Heptane, 2,5-dimethyl-	0.43	mg/Kg dry	125632	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
Heptane, 2,6-dimethyl-	0.13	mg/Kg dry	39477	3.739	1	001072-05-5	80	SW-846 8270E	11/11/24	11/13/24 17:04	KMC
n-Hexadecanoic acid	0.14	mg/Kg dry	59573	8.062	1	000057-10-3	98	SW-846 8270E	11/11/24	11/13/24 17:04	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.0025	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
gamma-Chlordane [1]	ND	0.0054	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Aldrin [1]	ND	0.0054	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
alpha-BHC [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
beta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
delta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
4,4'-DDD [1]	ND	0.0043	0.00092	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
4,4'-DDE [1]	ND	0.0043	0.00048	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
4,4'-DDT [1]	ND	0.0043	0.00056	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Dieldrin [1]	ND	0.0043	0.00052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endosulfan I [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endosulfan II [1]	ND	0.0087	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endosulfan sulfate [1]	ND	0.0087	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endrin [1]	ND	0.0087	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endrin aldehyde [1]	ND	0.0087	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Endrin ketone [1]	ND	0.0087	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Heptachlor [1]	ND	0.0054	0.00059	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Heptachlor epoxide [1]	ND	0.0054	0.00063	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Methoxychlor [1]	ND	0.054	0.0064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG
Toxaphene [2]	ND	0.11	0.052	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	74.1	30-150		11/19/24	0:41
Decachlorobiphenyl [2]	71.9	30-150		11/19/24	0:41
Tetrachloro-m-xylene [1]	60.7	30-150		11/19/24	0:41
Tetrachloro-m-xylene [2]	63.5	30-150		11/19/24	0:41

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1254 [1]	ND	0.087	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1262 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/15/24 15:44	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.8	30-150		11/15/24 15:44
Decachlorobiphenyl [2]	53.1	30-150		11/15/24 15:44
Tetrachloro-m-xylene [1]	34.0	30-150		11/15/24 15:44
Tetrachloro-m-xylene [2]	47.0	30-150		11/15/24 15:44

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5400	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Arsenic	5.1	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Barium	57	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Beryllium	0.34	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Calcium	4600	18	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Chromium	11	0.72	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Cobalt	4.5	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Copper	15	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Iron	10000	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Lead	5.7	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Magnesium	2900	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Manganese	230	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:15	MJH
Nickel	8.9	0.72	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Potassium	1200	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:25	HNN
Selenium	ND	3.6	0.89	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:25	HNN
Sodium	330	180	53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Vanadium	21	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN
Zinc	20	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:24	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z34-35 Sampled: 11/1/2024 15:40

Sample ID: 24K0174-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/14/24	11/14/24 15:00	DET

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	0.046	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0038	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00088	0.00082	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Benzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Bromochloromethane	ND	0.0018	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Bromodichloromethane	ND	0.0018	0.00045	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Bromoform	ND	0.0018	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Bromomethane	ND	0.0088	0.0016	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
2-Butanone (MEK)	ND	0.035	0.0075	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.088	0.036	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
n-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
sec-Butylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00088	0.00076	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Carbon Disulfide	ND	0.018	0.0089	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Carbon Tetrachloride	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Chlorobenzene	ND	0.0018	0.00043	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Chlorodibromomethane	ND	0.00088	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Chloroethane	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Chloroform	ND	0.0035	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Chloromethane	ND	0.0088	0.0011	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Cyclohexane	ND	0.0088	0.0036	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	0.00064	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1-Dichloroethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2-Dichloroethane	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1-Dichloroethylene	ND	0.0035	0.00085	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2-Dichloropropane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
cis-1,3-Dichloropropene	ND	0.00088	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
trans-1,3-Dichloropropene	ND	0.00088	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Diisopropyl Ether (DIPE)	ND	0.00088	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Ethanol	ND	0.18	0.035	mg/Kg dry	1	V-05	SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Ethylbenzene	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
2-Hexanone (MBK)	ND	0.018	0.0061	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Methyl Cyclohexane	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Methylene Chloride	ND	0.018	0.00083	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0078	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Naphthalene	ND	0.0035	0.00087	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
n-Propylbenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Styrene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	0.00068	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Tetrachloroethylene	0.011	0.0018	0.00077	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Toluene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Trichloroethylene	ND	0.0018	0.00067	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	0.0010	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0088	0.00092	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00085	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Vinyl Chloride	ND	0.0088	0.00069	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
m+p Xylene	ND	0.0035	0.0013	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
o-Xylene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	11/6/24	11/6/24 12:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.5	70-130		11/6/24 12:21
Toluene-d8	101	70-130		11/6/24 12:21
4-Bromofluorobenzene	98.9	70-130		11/6/24 12:21

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260D	11/6/24	11/6/24 12:21	MFF

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzo(g,h,i)perylene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Chlorophenylphenylether	ND	0.38	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4-Dinitrotoluene	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/13/24 17:29	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.7	30-130		11/13/24 17:29
Phenol-d6	56.7	30-130		11/13/24 17:29
Nitrobenzene-d5	60.5	30-130		11/13/24 17:29
2-Fluorobiphenyl	53.8	30-130		11/13/24 17:29
2,4,6-Tribromophenol	55.6	30-130		11/13/24 17:29
p-Terphenyl-d14	61.9	30-130		11/13/24 17:29

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.055	0.044	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 13:48	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	41.5	15-110					11/15/24 13:48

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:12	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	89.3	8-130		12/4/24 0:12
13C5-PFPeA	101	35-130		12/4/24 0:12
13C5-PFHxA	103	40-130		12/4/24 0:12
13C4-PFHpA	99.3	40-130		12/4/24 0:12
13C8-PFOA	101	40-130		12/4/24 0:12
13C9-PFNA	96.0	40-130		12/4/24 0:12
13C6-PFDA	94.3	40-130		12/4/24 0:12
13C7-PFUnA	102	40-130		12/4/24 0:12
13C2-PFDoA	98.2	40-130		12/4/24 0:12
13C2-PFTeDA	95.3	20-130		12/4/24 0:12
13C3-PFBS	97.7	40-135		12/4/24 0:12
13C3-PFHxS	101	40-130		12/4/24 0:12
13C8-PFOS	103	40-130		12/4/24 0:12
13C2-4:2FTS	111	40-165		12/4/24 0:12
13C2-6:2FTS	109	40-215		12/4/24 0:12
13C2-8:2FTS	113	40-275		12/4/24 0:12
13C8-PFOSA	85.1	40-130		12/4/24 0:12
D3-NMeFOSA	82.8	10-130		12/4/24 0:12
D5-NEtFOSA	82.3	10-130		12/4/24 0:12
D3-NMeFOSAA	83.2	40-135		12/4/24 0:12
D5-NEtFOSAA	79.1	40-150		12/4/24 0:12
D7-NMeFOSE	89.6	20-130		12/4/24 0:12
D9-NEtFOSE	88.8	15-130		12/4/24 0:12
13C3-HFPO-DA	107	40-130		12/4/24 0:12

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
3-Penten-2-one, 4-methyl-	1.0	mg/Kg dry	247695	3.495	1	000141-79-7	91	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Heptane, 2,3-dimethyl-	0.17	mg/Kg dry	40967	3.937	1	003074-71-3	91	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Heptane, 2,4-dimethyl-	0.15	mg/Kg dry	36414	3.683	1	002213-23-2	86	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Heptane, 2,5-dimethyl-	0.46	mg/Kg dry	108752	3.783	1	002216-30-0	91	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
Heptane, 2,6-dimethyl-	0.14	mg/Kg dry	33195	3.737	1	001072-05-5	90	SW-846 8270E	11/11/24	11/13/24 17:29	KMC
n-Hexadecanoic acid	0.11	mg/Kg dry	38607	8.062	1	000057-10-3	93	SW-846 8270E	11/11/24	11/13/24 17:29	KMC

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
gamma-Chlordane [1]	ND	0.0055	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Aldrin [1]	ND	0.0055	0.00054	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
alpha-BHC [1]	ND	0.0055	0.0026	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
beta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
delta-BHC [1]	ND	0.0055	0.0029	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
4,4'-DDD [1]	ND	0.0044	0.00094	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
4,4'-DDE [1]	ND	0.0044	0.00049	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
4,4'-DDT [1]	ND	0.0044	0.00057	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Dieldrin [1]	ND	0.0044	0.00053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endosulfan I [1]	ND	0.0055	0.0027	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endosulfan II [1]	ND	0.0089	0.0024	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endosulfan sulfate [1]	ND	0.0089	0.0021	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endrin [1]	ND	0.0089	0.0028	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endrin aldehyde [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Endrin ketone [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Heptachlor [1]	ND	0.0055	0.00061	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Heptachlor epoxide [1]	ND	0.0055	0.00064	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Methoxychlor [1]	ND	0.055	0.0066	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG
Toxaphene [2]	ND	0.11	0.053	mg/Kg dry	1		SW-846 8081B	11/14/24	11/19/24 0:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		11/19/24 0:53
Decachlorobiphenyl [2]	79.8	30-150		11/19/24 0:53
Tetrachloro-m-xylene [1]	69.7	30-150		11/19/24 0:53
Tetrachloro-m-xylene [2]	73.0	30-150		11/19/24 0:53

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1221 [1]	ND	0.084	0.039	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1232 [1]	ND	0.084	0.021	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1242 [1]	ND	0.084	0.023	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1248 [1]	ND	0.084	0.020	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1254 [1]	ND	0.084	0.025	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1260 [1]	ND	0.084	0.018	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1262 [1]	ND	0.084	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW
Aroclor-1268 [1]	ND	0.084	0.022	mg/Kg dry	4		SW-846 8082A	11/14/24	11/22/24 15:28	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		11/22/24 15:28
Decachlorobiphenyl [2]	61.0	30-150		11/22/24 15:28
Tetrachloro-m-xylene [1]	88.3	30-150		11/22/24 15:28
Tetrachloro-m-xylene [2]	85.5	30-150		11/22/24 15:28

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2700	18	5.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Antimony	ND	1.8	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Arsenic	2.4	3.6	0.50	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Barium	28	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Beryllium	0.19	0.18	0.054	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Calcium	5200	18	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Chromium	5.5	0.71	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Cobalt	3.2	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Copper	8.6	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Iron	6700	18	8.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Lead	3.2	0.53	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Magnesium	2200	18	4.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Manganese	200	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:17	MJH
Nickel	7.6	0.71	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Potassium	500	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:33	HNN
Selenium	ND	3.6	0.88	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:33	HNN
Sodium	90	180	53	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Vanadium	9.3	0.71	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN
Zinc	15	0.71	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:31	HNN

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Project Location: Carroll Gardens, Brooklyn, NY Sample Description: Work Order: 24K0174

Date Received: 11/2/2024

Field Sample #: CLMW-02-Z45-46 Sampled: 11/1/2024 16:00

Sample ID: 24K0174-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.54	0.41	mg/Kg dry	1		SW-846 9014	11/14/24	11/14/24 15:00	DET

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B392724	5.39	4.00	11/27/24
24K0174-02 [CLMW-05-Z24-25]	B392724	5.63	4.00	11/27/24
24K0174-03 [CLMW-05-Z34-35]	B392724	5.64	4.00	11/27/24
24K0174-04 [CLMW-05-Z34-35Q]	B392724	5.63	4.00	11/27/24
24K0174-05 [CLMW-05-Z44-45]	B392724	5.96	4.00	11/27/24
24K0174-06 [CLMW-02-Z17-18]	B392724	5.64	4.00	11/27/24
24K0174-07 [CLMW-02-Z28-29]	B392724	5.63	4.00	11/27/24
24K0174-08 [CLMW-02-Z34-35]	B392724	5.67	4.00	11/27/24
24K0174-09 [CLMW-02-Z45-46]	B392724	5.67	4.00	11/27/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0174-01 [CLMW-05-Z11-12]	B391677	11/07/24
24K0174-02 [CLMW-05-Z24-25]	B391677	11/07/24
24K0174-03 [CLMW-05-Z34-35]	B391677	11/07/24
24K0174-04 [CLMW-05-Z34-35Q]	B391677	11/07/24
24K0174-05 [CLMW-05-Z44-45]	B391677	11/07/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0174-06 [CLMW-02-Z17-18]	B392045	11/12/24
24K0174-07 [CLMW-02-Z28-29]	B392045	11/12/24
24K0174-08 [CLMW-02-Z34-35]	B392045	11/12/24
24K0174-09 [CLMW-02-Z45-46]	B392045	11/12/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B391603	1.54	50.0	11/06/24
24K0174-02 [CLMW-05-Z24-25]	B391603	1.52	50.0	11/06/24
24K0174-03 [CLMW-05-Z34-35]	B391603	1.55	50.0	11/06/24
24K0174-04 [CLMW-05-Z34-35Q]	B391603	1.55	50.0	11/06/24
24K0174-05 [CLMW-05-Z44-45]	B391603	1.55	50.0	11/06/24
24K0174-06 [CLMW-02-Z17-18]	B391603	1.53	50.0	11/06/24
24K0174-07 [CLMW-02-Z28-29]	B391603	1.50	50.0	11/06/24
24K0174-08 [CLMW-02-Z34-35]	B391603	1.53	50.0	11/06/24
24K0174-09 [CLMW-02-Z45-46]	B391603	1.58	50.0	11/06/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B393099	0.641	50.0	11/25/24
24K0174-02 [CLMW-05-Z24-25]	B393099	0.663	50.0	11/25/24
24K0174-03 [CLMW-05-Z34-35]	B393099	0.641	50.0	11/25/24
24K0174-04 [CLMW-05-Z34-35Q]	B393099	0.673	50.0	11/25/24
24K0174-05 [CLMW-05-Z44-45]	B393099	0.628	50.0	11/25/24
24K0174-06 [CLMW-02-Z17-18]	B393099	0.687	50.0	11/25/24
24K0174-07 [CLMW-02-Z28-29]	B393099	0.679	50.0	11/25/24

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Sample Extraction Data

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-08 [CLMW-02-Z34-35]	B393099	0.627	50.0	11/25/24
24K0174-09 [CLMW-02-Z45-46]	B393099	0.641	50.0	11/25/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B392205	10.2	10.0	11/14/24
24K0174-02 [CLMW-05-Z24-25]	B392205	10.1	10.0	11/14/24
24K0174-03 [CLMW-05-Z34-35]	B392205	10.1	10.0	11/14/24
24K0174-04 [CLMW-05-Z34-35Q]	B392205	10.1	10.0	11/14/24
24K0174-05 [CLMW-05-Z44-45]	B392205	10.0	10.0	11/14/24
24K0174-06 [CLMW-02-Z17-18]	B392205	10.1	10.0	11/14/24
24K0174-07 [CLMW-02-Z28-29]	B392205	10.1	10.0	11/14/24
24K0174-08 [CLMW-02-Z34-35]	B392205	10.2	10.0	11/14/24
24K0174-09 [CLMW-02-Z45-46]	B392205	10.2	10.0	11/14/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-03 [CLMW-05-Z34-35]	B391690	10.1	10.0	11/07/24
24K0174-04 [CLMW-05-Z34-35Q]	B391690	10.1	10.0	11/07/24
24K0174-07 [CLMW-02-Z28-29]	B391690	10.0	10.0	11/07/24
24K0174-08 [CLMW-02-Z34-35]	B391690	10.1	10.0	11/07/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01RE1 [CLMW-05-Z11-12]	B392206	10.2	10.0	11/14/24
24K0174-02RE1 [CLMW-05-Z24-25]	B392206	10.6	10.0	11/14/24
24K0174-05RE1 [CLMW-05-Z44-45]	B392206	10.7	10.0	11/14/24
24K0174-06RE1 [CLMW-02-Z17-18]	B392206	10.7	10.0	11/14/24
24K0174-09RE1 [CLMW-02-Z45-46]	B392206	10.7	10.0	11/14/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B391537	5.69	10.0	11/06/24
24K0174-02 [CLMW-05-Z24-25]	B391537	6.39	10.0	11/06/24
24K0174-03 [CLMW-05-Z34-35]	B391537	6.77	10.0	11/06/24
24K0174-04 [CLMW-05-Z34-35Q]	B391537	6.91	10.0	11/06/24
24K0174-05 [CLMW-05-Z44-45]	B391537	5.82	10.0	11/06/24
24K0174-06 [CLMW-02-Z17-18]	B391537	6.88	10.0	11/06/24
24K0174-07 [CLMW-02-Z28-29]	B391537	6.60	10.0	11/06/24
24K0174-08 [CLMW-02-Z34-35]	B391537	6.55	10.0	11/06/24
24K0174-09 [CLMW-02-Z45-46]	B391537	6.36	10.0	11/06/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B391875	30.1	1.00	11/11/24
24K0174-02 [CLMW-05-Z24-25]	B391875	30.1	1.00	11/11/24
24K0174-03 [CLMW-05-Z34-35]	B391875	30.0	1.00	11/11/24
24K0174-04 [CLMW-05-Z34-35Q]	B391875	30.0	1.00	11/11/24
24K0174-05 [CLMW-05-Z44-45]	B391875	30.0	1.00	11/11/24
24K0174-06 [CLMW-02-Z17-18]	B391875	30.1	1.00	11/11/24
24K0174-07 [CLMW-02-Z28-29]	B391875	30.1	1.00	11/11/24
24K0174-08 [CLMW-02-Z34-35]	B391875	30.1	1.00	11/11/24
24K0174-09 [CLMW-02-Z45-46]	B391875	30.1	1.00	11/11/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B392039	20.5	1.00	11/12/24
24K0174-02 [CLMW-05-Z24-25]	B392039	20.2	1.00	11/12/24
24K0174-03 [CLMW-05-Z34-35]	B392039	20.7	1.00	11/12/24
24K0174-04 [CLMW-05-Z34-35Q]	B392039	20.5	1.00	11/12/24
24K0174-05 [CLMW-05-Z44-45]	B392039	20.7	1.00	11/12/24
24K0174-06 [CLMW-02-Z17-18]	B392039	20.4	1.00	11/12/24
24K0174-07 [CLMW-02-Z28-29]	B392039	20.8	1.00	11/12/24
24K0174-08 [CLMW-02-Z34-35]	B392039	20.5	1.00	11/12/24
24K0174-09 [CLMW-02-Z45-46]	B392039	20.3	1.00	11/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-01 [CLMW-05-Z11-12]	B391995	1.02	50.0	11/12/24
24K0174-02 [CLMW-05-Z24-25]	B391995	1.06	50.0	11/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-03 [CLMW-05-Z34-35]	B392094	1.02	50.0	11/13/24
24K0174-04 [CLMW-05-Z34-35Q]	B392094	1.09	50.0	11/13/24
24K0174-05 [CLMW-05-Z44-45]	B392094	1.06	50.0	11/13/24
24K0174-06 [CLMW-02-Z17-18]	B392094	1.09	50.0	11/13/24
24K0174-07 [CLMW-02-Z28-29]	B392094	1.03	50.0	11/13/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0174-08 [CLMW-02-Z34-35]	B392211	1.01	50.0	11/14/24
24K0174-09 [CLMW-02-Z45-46]	B392211	1.04	50.0	11/14/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391537 - SW-846 5035										
Blank (B391537-BLK1)				Prepared & Analyzed: 11/06/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391537 - SW-846 5035											
Blank (B391537-BLK1)				Prepared & Analyzed: 11/06/24							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Xylenes (total)	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0487*		mg/Kg wet	0.05000		97.4	70-130				
Surrogate: Toluene-d8	*0.0487*		mg/Kg wet	0.05000		97.5	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.05000		98.5	70-130				
LCS (B391537-BS1)				Prepared & Analyzed: 11/06/24							
Acetone	0.194	0.10	mg/Kg wet	0.2000		97.0	70-160				†
tert-Amyl Alcohol (TAA)	0.197	0.020	mg/Kg wet	0.2000		98.3	70-130				
tert-Amyl Ethyl Ether (TAEE)	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
tert-Amyl Methyl Ether (TAME)	0.0199	0.0010	mg/Kg wet	0.02000		99.3	70-130				
Benzene	0.0178	0.0020	mg/Kg wet	0.02000		89.1	70-130				
Bromochloromethane	0.0218	0.0020	mg/Kg wet	0.02000		109	70-130				
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.02000		97.8	70-130				
Bromoform	0.0225	0.0020	mg/Kg wet	0.02000		112	70-130				
Bromomethane	0.0209	0.010	mg/Kg wet	0.02000		104	40-130				†
2-Butanone (MEK)	0.193	0.040	mg/Kg wet	0.2000		96.6	70-160				†
tert-Butyl Alcohol (TBA)	0.202	0.10	mg/Kg wet	0.2000		101	40-130				†
n-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130				
sec-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.5	70-130				
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.0	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0190	0.0010	mg/Kg wet	0.02000		95.2	70-130				
Carbon Disulfide	0.186	0.020	mg/Kg wet	0.2000		93.1	70-130				
Carbon Tetrachloride	0.0195	0.0020	mg/Kg wet	0.02000		97.4	70-130				
Chlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130				
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.02000		104	70-130				
Chloroethane	0.0179	0.020	mg/Kg wet	0.02000		89.7	70-130			J	
Chloroform	0.0192	0.0040	mg/Kg wet	0.02000		96.2	70-130				
Chloromethane	0.0173	0.010	mg/Kg wet	0.02000		86.6	70-130				
Cyclohexane	0.0186	0.010	mg/Kg wet	0.02000		93.0	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0196	0.0020	mg/Kg wet	0.02000		98.2	70-130				
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.02000		104	70-130				
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.02000		94.9	70-130				
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.7	70-130				
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130				
Dichlorodifluoromethane (Freon 12)	0.0158	0.020	mg/Kg wet	0.02000		79.2	40-160			J	†
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.02000		93.4	70-130				
1,2-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.02000		90.4	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391537 - SW-846 5035											
LCS (B391537-BS1)				Prepared & Analyzed: 11/06/24							
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.02000		86.2	70-130				
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.02000		93.2	70-130				
trans-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.02000		94.6	70-130				
1,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.02000		92.1	70-130				
cis-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.02000		102	70-130				
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.02000		97.5	70-130				
Diisopropyl Ether (DIPE)	0.0181	0.0010	mg/Kg wet	0.02000		90.4	70-130				
Ethylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.2	70-130				
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.2000		103	70-160				†
Isopropylbenzene (Cumene)	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130				
p-Isopropyltoluene (p-Cymene)	0.0197	0.0020	mg/Kg wet	0.02000		98.4	70-130				
Methyl Acetate	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.02000		96.4	70-130				
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.02000		99.8	70-130				
Methylene Chloride	0.0177	0.020	mg/Kg wet	0.02000		88.6	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.2000		103	70-160				†
Naphthalene	0.0170	0.0040	mg/Kg wet	0.02000		84.8	40-130				†
n-Propylbenzene	0.0195	0.0020	mg/Kg wet	0.02000		97.6	70-130				
Styrene	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130				
1,1,2,2-Tetrachloroethane	0.0212	0.0010	mg/Kg wet	0.02000		106	70-130				
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.02000		89.9	70-130				
Toluene	0.0179	0.0020	mg/Kg wet	0.02000		89.7	70-130				
1,2,3-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.02000		86.3	70-130				
1,2,4-Trichlorobenzene	0.0161	0.0020	mg/Kg wet	0.02000		80.5	70-130				
1,1,1-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130				
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.02000		109	70-130				
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130				
Trichlorofluoromethane (Freon 11)	0.0192	0.010	mg/Kg wet	0.02000		96.1	70-130				
1,2,3-Trichloropropane	0.0230	0.0020	mg/Kg wet	0.02000		115	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0202	0.010	mg/Kg wet	0.02000		101	70-130				
1,2,4-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.0	70-130				
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.02000		85.0	40-130				†
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.04000		98.1	70-130				
o-Xylene	0.0195	0.0020	mg/Kg wet	0.02000		97.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0474*		mg/Kg wet	0.05000		94.8	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.05000		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0494*		mg/Kg wet	0.05000		98.8	70-130				
LCS (B391537-BS2)				Prepared & Analyzed: 11/06/24							
Ethanol	0.134	0.20	mg/Kg wet	0.2000		66.8	40-160			V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0489*		mg/Kg wet	0.05000		97.9	70-130				
Surrogate: Toluene-d8	*0.0508*		mg/Kg wet	0.05000		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.05000		98.1	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391537 - SW-846 5035											
LCS Dup (B391537-BSD1)				Prepared & Analyzed: 11/06/24							
Acetone	0.192	0.10	mg/Kg wet	0.2000		96.1	70-160	0.994	25		†
tert-Amyl Alcohol (TAA)	0.190	0.020	mg/Kg wet	0.2000		95.0	70-130	3.42	25		
tert-Amyl Ethyl Ether (TAEE)	0.0184	0.0020	mg/Kg wet	0.02000		91.8	70-130	6.64	25		
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.02000		100	70-130	0.902	25		
Benzene	0.0192	0.0020	mg/Kg wet	0.02000		96.2	70-130	7.66	25		
Bromochloromethane	0.0232	0.0020	mg/Kg wet	0.02000		116	70-130	6.05	25		
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.02000		104	70-130	6.24	25		
Bromoform	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130	8.24	25		
Bromomethane	0.0230	0.010	mg/Kg wet	0.02000		115	40-130	9.58	25		†
2-Butanone (MEK)	0.202	0.040	mg/Kg wet	0.2000		101	70-160	4.20	25		†
tert-Butyl Alcohol (TBA)	0.205	0.10	mg/Kg wet	0.2000		103	40-130	1.57	25		†
n-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130	0.744	25		
sec-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.02000		92.6	70-130	4.12	25		
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		98.8	70-160	1.84	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0193	0.0010	mg/Kg wet	0.02000		96.7	70-130	1.56	25		
Carbon Disulfide	0.190	0.020	mg/Kg wet	0.2000		94.8	70-130	1.83	25		
Carbon Tetrachloride	0.0196	0.0020	mg/Kg wet	0.02000		98.0	70-130	0.614	25		
Chlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.6	70-130	2.99	25		
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.02000		106	70-130	2.20	25		
Chloroethane	0.0189	0.020	mg/Kg wet	0.02000		94.3	70-130	5.00	25	J	
Chloroform	0.0204	0.0040	mg/Kg wet	0.02000		102	70-130	5.75	25		
Chloromethane	0.0168	0.010	mg/Kg wet	0.02000		83.8	70-130	3.29	25		
Cyclohexane	0.0187	0.010	mg/Kg wet	0.02000		93.7	70-130	0.750	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0180	0.0020	mg/Kg wet	0.02000		89.9	70-130	8.83	25		
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.02000		98.9	70-130	4.74	25		
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-130	0.316	25		
1,3-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130	2.41	25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.02000		96.2	70-130	0.940	25		
Dichlorodifluoromethane (Freon 12)	0.0162	0.020	mg/Kg wet	0.02000		81.2	40-160	2.49	25	J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.02000		93.8	70-130	0.427	25		
1,2-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130	5.38	25		
1,1-Dichloroethylene	0.0185	0.0040	mg/Kg wet	0.02000		92.5	70-130	7.05	25		
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.02000		96.8	70-130	3.79	25		
trans-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.02000		94.1	70-130	0.530	25		
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.02000		93.0	70-130	0.972	25		
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.02000		99.8	70-130	2.67	25		
trans-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.02000		100	70-130	2.93	25		
Diisopropyl Ether (DIPE)	0.0193	0.0010	mg/Kg wet	0.02000		96.3	70-130	6.32	25		
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.4	70-130	0.810	25		
2-Hexanone (MBK)	0.207	0.020	mg/Kg wet	0.2000		104	70-160	0.998	25		†
Isopropylbenzene (Cumene)	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	5.50	25		
p-Isopropyltoluene (p-Cymene)	0.0195	0.0020	mg/Kg wet	0.02000		97.4	70-130	1.02	25		
Methyl Acetate	0.0205	0.0020	mg/Kg wet	0.02000		103	70-130	4.58	25		
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.02000		104	70-130	7.68	25		
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.02000		99.8	70-130	0.00	25		
Methylene Chloride	0.0183	0.020	mg/Kg wet	0.02000		91.7	40-160	3.44	25	J	†
4-Methyl-2-pentanone (MIBK)	0.202	0.020	mg/Kg wet	0.2000		101	70-160	2.26	25		†
Naphthalene	0.0161	0.0040	mg/Kg wet	0.02000		80.7	40-130	4.95	25		†
n-Propylbenzene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	3.62	25		
Styrene	0.0199	0.0020	mg/Kg wet	0.02000		99.3	70-130	3.07	25		
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.02000		107	70-130	0.658	25		
Tetrachloroethylene	0.0183	0.0020	mg/Kg wet	0.02000		91.4	70-130	1.65	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391537 - SW-846 5035										
LCS Dup (B391537-BSD1)				Prepared & Analyzed: 11/06/24						
Toluene	0.0180	0.0020	mg/Kg wet	0.02000		90.1	70-130	0.445	25	
1,2,3-Trichlorobenzene	0.0163	0.0020	mg/Kg wet	0.02000		81.6	70-130	5.60	25	
1,2,4-Trichlorobenzene	0.0165	0.0020	mg/Kg wet	0.02000		82.5	70-130	2.45	25	
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.02000		96.4	70-130	2.84	25	
1,1,2-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.02000		106	70-130	2.51	25	
Trichloroethylene	0.0192	0.0020	mg/Kg wet	0.02000		95.8	70-130	1.47	25	
Trichlorofluoromethane (Freon 11)	0.0195	0.010	mg/Kg wet	0.02000		97.3	70-130	1.24	25	
1,2,3-Trichloropropane	0.0234	0.0020	mg/Kg wet	0.02000		117	70-130	1.73	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0200	0.010	mg/Kg wet	0.02000		100	70-130	0.894	25	
1,2,4-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	0.397	25	
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		98.8	70-130	0.813	25	
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.02000		86.9	40-130	2.21	25	†
m+p Xylene	0.0396	0.0040	mg/Kg wet	0.04000		98.9	70-130	0.812	25	
o-Xylene	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130	6.16	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0491*		mg/Kg wet	0.05000		98.1	70-130			
Surrogate: Toluene-d8	*0.0506*		mg/Kg wet	0.05000		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0512*		mg/Kg wet	0.05000		102	70-130			
LCS Dup (B391537-BSD2)				Prepared & Analyzed: 11/06/24						
Ethanol	0.136	0.20	mg/Kg wet	0.2000		68.1	40-160	1.81	25	V-05, J
Surrogate: 1,2-Dichloroethane-d4	*0.0486*		mg/Kg wet	0.05000		97.2	70-130			
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.05000		98.0	70-130			
Matrix Spike (B391537-MS1)		**Source: 24K0174-05**		Prepared & Analyzed: 11/06/24						
Acetone	0.171	0.10	mg/Kg dry	0.2008	ND	85.1	70-130			
tert-Amyl Alcohol (TAA)	0.163	0.020	mg/Kg dry	0.2008	ND	81.2	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0176	0.0020	mg/Kg dry	0.02008	ND	87.6	70-130			
tert-Amyl Methyl Ether (TAME)	0.0215	0.0010	mg/Kg dry	0.02008	ND	107	70-130			
Benzene	0.0184	0.0020	mg/Kg dry	0.02008	ND	91.7	70-130			
Bromochloromethane	0.0230	0.0020	mg/Kg dry	0.02008	ND	115	70-130			
Bromodichloromethane	0.0214	0.0020	mg/Kg dry	0.02008	ND	107	70-130			
Bromoform	0.0238	0.0020	mg/Kg dry	0.02008	ND	118	70-130			
Bromomethane	0.0190	0.010	mg/Kg dry	0.02008	ND	94.6	70-130			
2-Butanone (MEK)	0.171	0.040	mg/Kg dry	0.2008	ND	85.3	70-130			
tert-Butyl Alcohol (TBA)	0.165	0.10	mg/Kg dry	0.2008	ND	82.4	70-130			
n-Butylbenzene	0.0195	0.0020	mg/Kg dry	0.02008	ND	96.9	70-130			
sec-Butylbenzene	0.0208	0.0020	mg/Kg dry	0.02008	ND	104	70-130			
tert-Butylbenzene	0.0209	0.0020	mg/Kg dry	0.02008	ND	104	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg dry	0.02008	ND	98.6	70-130			
Carbon Disulfide	0.0206	0.020	mg/Kg dry	0.02008	ND	103	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg dry	0.02008	ND	99.2	70-130			
Chlorobenzene	0.0202	0.0020	mg/Kg dry	0.02008	ND	101	70-130			
Chlorodibromomethane	0.0215	0.0010	mg/Kg dry	0.02008	ND	107	70-130			
Chloroethane	0.0172	0.020	mg/Kg dry	0.02008	ND	85.5	70-130			J
Chloroform	0.0203	0.0040	mg/Kg dry	0.02008	ND	101	70-130			
Chloromethane	0.0153	0.010	mg/Kg dry	0.02008	ND	76.0	70-130			
Cyclohexane	0.0190	0.010	mg/Kg dry	0.02008	ND	94.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0143	0.0020	mg/Kg dry	0.02008	ND	71.3	70-130			R-06
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg dry	0.02008	ND	104	70-130			
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg dry	0.02008	ND	101	70-130			
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg dry	0.02008	ND	103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391537 - SW-846 5035											
Matrix Spike (B391537-MS1)		**Source: 24K0174-05**		Prepared & Analyzed: 11/06/24							
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg dry	0.02008	ND	102		70-130			
Dichlorodifluoromethane (Freon 12)	0.0186	0.020	mg/Kg dry	0.02008	ND	92.6		70-130			J
1,1-Dichloroethane	0.0194	0.0020	mg/Kg dry	0.02008	ND	96.4		70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg dry	0.02008	ND	95.6		70-130			
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg dry	0.02008	ND	95.2		70-130			
cis-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg dry	0.02008	ND	98.2		70-130			
trans-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg dry	0.02008	ND	93.4		70-130			
1,2-Dichloropropane	0.0188	0.0020	mg/Kg dry	0.02008	ND	93.4		70-130			
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg dry	0.02008	ND	98.9		70-130			
trans-1,3-Dichloropropene	0.0217	0.0010	mg/Kg dry	0.02008	ND	108		70-130			
Diisopropyl Ether (DIPE)	0.0198	0.0010	mg/Kg dry	0.02008	ND	98.5		70-130			
Ethanol	ND	0.20	mg/Kg dry	0.2008	ND		*	70-130			MS-07A, V-05
Ethylbenzene	0.0203	0.0020	mg/Kg dry	0.02008	ND	101		70-130			
2-Hexanone (MBK)	0.190	0.020	mg/Kg dry	0.2008	ND	94.7		70-130			
Isopropylbenzene (Cumene)	0.0205	0.0020	mg/Kg dry	0.02008	ND	102		70-130			
p-Isopropyltoluene (p-Cymene)	0.0212	0.0020	mg/Kg dry	0.02008	ND	106		70-130			
Methyl Acetate	0.0191	0.0020	mg/Kg dry	0.02008	ND	95.1		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg dry	0.02008	ND	94.3		70-130			
Methyl Cyclohexane	0.0193	0.0020	mg/Kg dry	0.02008	ND	96.0		70-130			
Methylene Chloride	0.0181	0.020	mg/Kg dry	0.02008	ND	90.3		70-130			J
4-Methyl-2-pentanone (MIBK)	0.197	0.020	mg/Kg dry	0.2008	ND	98.0		70-130			
Naphthalene	0.0141	0.0040	mg/Kg dry	0.02008	ND	70.0		70-130			
n-Propylbenzene	0.0209	0.0020	mg/Kg dry	0.02008	ND	104		70-130			
Styrene	0.0217	0.0020	mg/Kg dry	0.02008	ND	108		70-130			
1,1,2,2-Tetrachloroethane	0.0233	0.0010	mg/Kg dry	0.02008	ND	116		70-130			
Tetrachloroethylene	0.0221	0.0020	mg/Kg dry	0.02008	0.00424	89.1		70-130			
Toluene	0.0184	0.0020	mg/Kg dry	0.02008	ND	91.4		70-130			
1,2,3-Trichlorobenzene	0.0174	0.0020	mg/Kg dry	0.02008	ND	86.7		70-130			
1,2,4-Trichlorobenzene	0.0177	0.0020	mg/Kg dry	0.02008	ND	88.1		70-130			
1,1,1-Trichloroethane	0.0190	0.0020	mg/Kg dry	0.02008	ND	94.6		70-130			
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg dry	0.02008	ND	109		70-130			
Trichloroethylene	0.0204	0.0020	mg/Kg dry	0.02008	ND	102		70-130			
Trichlorofluoromethane (Freon 11)	0.0186	0.010	mg/Kg dry	0.02008	ND	92.5		70-130			
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg dry	0.02008	ND	106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg dry	0.02008	ND	105		70-130			
1,2,4-Trimethylbenzene	0.0200	0.0020	mg/Kg dry	0.02008	ND	99.7		70-130			
1,3,5-Trimethylbenzene	0.0210	0.0020	mg/Kg dry	0.02008	ND	105		70-130			
Vinyl Chloride	0.0169	0.010	mg/Kg dry	0.02008	ND	84.0		70-130			
m+p Xylene	0.0409	0.0040	mg/Kg dry	0.04016	ND	102		70-130			
o-Xylene	0.0213	0.0020	mg/Kg dry	0.02008	ND	106		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0498*		mg/Kg dry	0.05020		99.2		70-130			
Surrogate: Toluene-d8	*0.0511*		mg/Kg dry	0.05020		102		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg dry	0.05020		102		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391537 - SW-846 5035												
Matrix Spike Dup (B391537-MSD1)		**Source: 24K0174-05**		Prepared & Analyzed: 11/06/24								
Acetone	0.180	0.099	mg/Kg dry	0.1971	ND	91.4		70-130	5.18		30	
tert-Amyl Alcohol (TAA)	0.182	0.020	mg/Kg dry	0.1971	ND	92.2		70-130	10.8		30	
tert-Amyl Ethyl Ether (TAEE)	0.0209	0.0020	mg/Kg dry	0.01971	ND	106		70-130	17.0		30	
tert-Amyl Methyl Ether (TAME)	0.0247	0.00099	mg/Kg dry	0.01971	ND	125		70-130	13.7		30	
Benzene	0.0192	0.0020	mg/Kg dry	0.01971	ND	97.4		70-130	4.14		30	
Bromochloromethane	0.0250	0.0020	mg/Kg dry	0.01971	ND	127		70-130	8.46		30	
Bromodichloromethane	0.0225	0.0020	mg/Kg dry	0.01971	ND	114		70-130	5.00		30	
Bromoform	0.0256	0.0020	mg/Kg dry	0.01971	ND	130		70-130	7.31		30	
Bromomethane	0.0189	0.0099	mg/Kg dry	0.01971	ND	95.9		70-130	0.524		30	
2-Butanone (MEK)	0.198	0.039	mg/Kg dry	0.1971	ND	100		70-130	14.4		30	
tert-Butyl Alcohol (TBA)	0.187	0.099	mg/Kg dry	0.1971	ND	94.9		70-130	12.2		30	
n-Butylbenzene	0.0222	0.0020	mg/Kg dry	0.01971	ND	113		70-130	13.1		30	
sec-Butylbenzene	0.0236	0.0020	mg/Kg dry	0.01971	ND	120		70-130	12.6		30	
tert-Butylbenzene	0.0232	0.0020	mg/Kg dry	0.01971	ND	118		70-130	10.4		30	
tert-Butyl Ethyl Ether (TBEE)	0.0217	0.00099	mg/Kg dry	0.01971	ND	110		70-130	8.96		30	
Carbon Disulfide	0.0203	0.020	mg/Kg dry	0.01971	ND	103		70-130	1.31		30	
Carbon Tetrachloride	0.0207	0.0020	mg/Kg dry	0.01971	ND	105		70-130	3.60		30	
Chlorobenzene	0.0224	0.0020	mg/Kg dry	0.01971	ND	114		70-130	10.4		30	
Chlorodibromomethane	0.0244	0.00099	mg/Kg dry	0.01971	ND	124		70-130	12.5		30	
Chloroethane	0.0167	0.020	mg/Kg dry	0.01971	ND	85.0		70-130	2.47		30	J
Chloroform	0.0209	0.0039	mg/Kg dry	0.01971	ND	106		70-130	3.13		30	
Chloromethane	0.0155	0.0099	mg/Kg dry	0.01971	ND	78.9		70-130	1.86		30	
Cyclohexane	0.0189	0.0099	mg/Kg dry	0.01971	ND	95.9		70-130	0.629		30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg dry	0.01971	ND	99.1		70-130	**30.8**	*	30	R-06
1,2-Dibromoethane (EDB)	0.0235	0.00099	mg/Kg dry	0.01971	ND	119		70-130	12.2		30	
1,2-Dichlorobenzene	0.0223	0.0020	mg/Kg dry	0.01971	ND	113		70-130	9.73		30	
1,3-Dichlorobenzene	0.0233	0.0020	mg/Kg dry	0.01971	ND	118		70-130	11.9		30	
1,4-Dichlorobenzene	0.0226	0.0020	mg/Kg dry	0.01971	ND	115		70-130	10.3		30	
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg dry	0.01971	ND	88.7		70-130	6.19		30	J
1,1-Dichloroethane	0.0201	0.0020	mg/Kg dry	0.01971	ND	102		70-130	3.76		30	
1,2-Dichloroethane	0.0200	0.0020	mg/Kg dry	0.01971	ND	101		70-130	4.00		30	
1,1-Dichloroethylene	0.0185	0.0039	mg/Kg dry	0.01971	ND	94.1		70-130	3.05		30	
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg dry	0.01971	ND	104		70-130	3.37		30	
trans-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg dry	0.01971	ND	93.7		70-130	1.57		30	
1,2-Dichloropropane	0.0207	0.0020	mg/Kg dry	0.01971	ND	105		70-130	9.72		30	
cis-1,3-Dichloropropene	0.0223	0.00099	mg/Kg dry	0.01971	ND	113		70-130	11.7		30	
trans-1,3-Dichloropropene	0.0242	0.00099	mg/Kg dry	0.01971	ND	123		70-130	10.8		30	
Diisopropyl Ether (DIPE)	0.0216	0.00099	mg/Kg dry	0.01971	ND	110		70-130	8.97		30	
Ethanol	ND	0.20	mg/Kg dry	0.1971	ND		*	70-130			30	MS-07A, V-05
Ethylbenzene	0.0226	0.0020	mg/Kg dry	0.01971	ND	114		70-130	10.4		30	
2-Hexanone (MBK)	0.210	0.020	mg/Kg dry	0.1971	ND	107		70-130	10.0		30	
Isopropylbenzene (Cumene)	0.0230	0.0020	mg/Kg dry	0.01971	ND	117		70-130	11.7		30	
p-Isopropyltoluene (p-Cymene)	0.0233	0.0020	mg/Kg dry	0.01971	ND	118		70-130	9.02		30	
Methyl Acetate	0.0202	0.0020	mg/Kg dry	0.01971	ND	102		70-130	5.60		30	
Methyl tert-Butyl Ether (MTBE)	0.0192	0.0039	mg/Kg dry	0.01971	ND	97.2		70-130	1.14		30	
Methyl Cyclohexane	0.0197	0.0020	mg/Kg dry	0.01971	ND	100		70-130	2.19		30	
Methylene Chloride	0.0179	0.020	mg/Kg dry	0.01971	ND	90.6		70-130	1.56		30	J
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg dry	0.1971	ND	110		70-130	9.97		30	
Naphthalene	0.0176	0.0039	mg/Kg dry	0.01971	ND	89.4		70-130	22.5		30	
n-Propylbenzene	0.0232	0.0020	mg/Kg dry	0.01971	ND	118		70-130	10.3		30	
Styrene	0.0234	0.0020	mg/Kg dry	0.01971	ND	119		70-130	7.63		30	
1,1,2,2-Tetrachloroethane	0.0240	0.00099	mg/Kg dry	0.01971	ND	122		70-130	3.00		30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391537 - SW-846 5035										
Matrix Spike Dup (B391537-MSD1)	**Source: 24K0174-05**			Prepared & Analyzed: 11/06/24						
Tetrachloroethylene	0.0248	0.0020	mg/Kg dry	0.01971	0.00424	104	70-130	11.2	30	
Toluene	0.0201	0.0020	mg/Kg dry	0.01971	ND	102	70-130	8.88	30	
1,2,3-Trichlorobenzene	0.0202	0.0020	mg/Kg dry	0.01971	ND	103	70-130	14.9	30	
1,2,4-Trichlorobenzene	0.0210	0.0020	mg/Kg dry	0.01971	ND	107	70-130	17.3	30	
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg dry	0.01971	ND	102	70-130	5.84	30	
1,1,2-Trichloroethane	0.0249	0.0020	mg/Kg dry	0.01971	ND	126	70-130	12.9	30	
Trichloroethylene	0.0204	0.0020	mg/Kg dry	0.01971	ND	103	70-130	0.229	30	
Trichlorofluoromethane (Freon 11)	0.0190	0.0099	mg/Kg dry	0.01971	ND	96.4	70-130	2.24	30	
1,2,3-Trichloropropane	0.0232	0.0020	mg/Kg dry	0.01971	ND	118	70-130	8.77	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0216	0.0099	mg/Kg dry	0.01971	ND	110	70-130	2.30	30	
1,2,4-Trimethylbenzene	0.0225	0.0020	mg/Kg dry	0.01971	ND	114	70-130	11.9	30	
1,3,5-Trimethylbenzene	0.0236	0.0020	mg/Kg dry	0.01971	ND	120	70-130	11.6	30	
Vinyl Chloride	0.0164	0.0099	mg/Kg dry	0.01971	ND	83.1	70-130	2.97	30	
m+p Xylene	0.0451	0.0039	mg/Kg dry	0.03941	ND	114	70-130	9.82	30	
o-Xylene	0.0238	0.0020	mg/Kg dry	0.01971	ND	121	70-130	11.2	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0484*		mg/Kg dry	0.04926		98.2	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg dry	0.04926		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg dry	0.04926		100	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391537 - SW-846 5035										
Blank (B391537-BLK1)				Prepared & Analyzed: 11/06/24						
No TICs Found	0.0		mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391875 - SW-846 3546										
Blank (B391875-BLK1)				Prepared: 11/11/24 Analyzed: 11/13/24						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							V-05
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
2,2'-oxybis(1-Chloropropane)	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391875 - SW-846 3546											
Blank (B391875-BLK1)				Prepared: 11/11/24 Analyzed: 11/13/24							
3/4-Methylphenol	ND	0.34	mg/Kg wet								
Naphthalene	ND	0.17	mg/Kg wet								
2-Nitroaniline	ND	0.34	mg/Kg wet								
3-Nitroaniline	ND	0.34	mg/Kg wet								
4-Nitroaniline	ND	0.34	mg/Kg wet								
Nitrobenzene	ND	0.34	mg/Kg wet								
2-Nitrophenol	ND	0.34	mg/Kg wet								
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet							L-04, V-34	
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*4.80*		mg/Kg wet	6.653		72.1	30-130				
Surrogate: Phenol-d6	*5.08*		mg/Kg wet	6.653		76.4	30-130				
Surrogate: Nitrobenzene-d5	*2.70*		mg/Kg wet	3.327		81.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.32*		mg/Kg wet	3.327		69.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.71*		mg/Kg wet	6.653		85.8	30-130				
Surrogate: p-Terphenyl-d14	*2.75*		mg/Kg wet	3.327		82.6	30-130				
LCS (B391875-BS1)				Prepared: 11/11/24 Analyzed: 11/13/24							
2,3,4,6-Tetrachlorophenol	1.26	0.67	mg/Kg wet	1.661		75.7	40-140				
Atrazine	1.38	0.67	mg/Kg wet	1.661		83.1	40-140				
Benzaldehyde	0.946	0.34	mg/Kg wet	1.661		56.9	40-140			V-05	
Biphenyl	1.14	0.67	mg/Kg wet	1.661		68.5	40-140				
Caprolactam	1.24	0.34	mg/Kg wet	1.661		74.9	40-140				
Acenaphthene	1.12	0.17	mg/Kg wet	1.661		67.6	40-140				
Acenaphthylene	1.17	0.17	mg/Kg wet	1.661		70.4	40-140				
Acetophenone	1.10	0.34	mg/Kg wet	1.661		66.0	40-140				
Aniline	0.816	0.34	mg/Kg wet	1.661		49.1	10-140				†
Anthracene	1.13	0.17	mg/Kg wet	1.661		68.3	40-140				
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.661		71.5	40-140				
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.661		72.2	40-140				
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.661		71.1	40-140				
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.661		80.1	40-140				
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.661		75.0	40-140				
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.661		73.1	40-140				
Bis(2-chloroethyl)ether	1.20	0.34	mg/Kg wet	1.661		71.9	40-140				
2,2'-oxybis(1-Chloropropane)	1.48	0.34	mg/Kg wet	1.661		89.3	40-140				
Bis(2-Ethylhexyl)phthalate	1.38	0.34	mg/Kg wet	1.661		83.3	40-140				
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.661		71.8	40-140				
Butylbenzylphthalate	1.32	0.34	mg/Kg wet	1.661		79.3	40-140				
Carbazole	1.16	0.17	mg/Kg wet	1.661		69.8	40-140				
4-Chloroaniline	0.778	0.66	mg/Kg wet	1.661		46.8	10-140				†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.661		68.4	30-130				
2-Chloronaphthalene	1.03	0.34	mg/Kg wet	1.661		62.3	40-140				
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.661		64.7	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391875 - SW-846 3546												
LCS (B391875-BS1)				Prepared: 11/11/24 Analyzed: 11/13/24								
4-Chlorophenylphenylether	1.20	0.34	mg/Kg wet	1.661		72.1		40-140				
Chrysene	1.14	0.17	mg/Kg wet	1.661		68.7		40-140				
Dibenz(a,h)anthracene	1.37	0.17	mg/Kg wet	1.661		82.4		40-140				
Dibenzofuran	1.18	0.34	mg/Kg wet	1.661		71.3		40-140				
Di-n-butylphthalate	1.25	0.34	mg/Kg wet	1.661		75.2		40-140				
3,3-Dichlorobenzidine	0.999	0.17	mg/Kg wet	1.661		60.2		20-140				†
2,4-Dichlorophenol	1.09	0.34	mg/Kg wet	1.661		65.8		30-130				
Diethylphthalate	1.28	0.34	mg/Kg wet	1.661		76.8		40-140				
2,4-Dimethylphenol	1.07	0.34	mg/Kg wet	1.661		64.3		30-130				
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.661		74.9		40-140				
4,6-Dinitro-2-methylphenol	1.24	0.34	mg/Kg wet	1.661		74.4		30-130				
2,4-Dinitrophenol	1.16	0.66	mg/Kg wet	1.661		69.8		30-130				
2,4-Dinitrotoluene	1.48	0.34	mg/Kg wet	1.661		89.2		40-140				
2,6-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.661		81.7		40-140				
Di-n-octylphthalate	1.37	0.34	mg/Kg wet	1.661		82.5		40-140				
Fluoranthene	1.15	0.17	mg/Kg wet	1.661		69.4		40-140				
Fluorene	1.17	0.17	mg/Kg wet	1.661		70.6		40-140				
Hexachlorobenzene	1.21	0.34	mg/Kg wet	1.661		73.0		40-140				
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.661		65.1		40-140				
Hexachlorocyclopentadiene	1.05	0.34	mg/Kg wet	1.661		63.3		40-140				
Hexachloroethane	1.03	0.34	mg/Kg wet	1.661		61.9		40-140				
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.661		85.5		40-140				
Isophorone	1.23	0.34	mg/Kg wet	1.661		73.8		40-140				
1-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.661		65.4		40-140				
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.661		63.0		40-140				
2-Methylphenol	1.09	0.34	mg/Kg wet	1.661		65.9		30-130				
3/4-Methylphenol	1.19	0.34	mg/Kg wet	1.661		71.6		30-130				
Naphthalene	1.08	0.17	mg/Kg wet	1.661		65.0		40-140				
2-Nitroaniline	1.60	0.34	mg/Kg wet	1.661		96.0		40-140				
3-Nitroaniline	1.09	0.34	mg/Kg wet	1.661		65.4		30-140				†
4-Nitroaniline	1.33	0.34	mg/Kg wet	1.661		79.8		40-140				
Nitrobenzene	1.15	0.34	mg/Kg wet	1.661		69.2		40-140				
2-Nitrophenol	1.16	0.34	mg/Kg wet	1.661		69.8		30-130				
4-Nitrophenol	1.30	0.66	mg/Kg wet	1.661		78.3		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.19	0.34	mg/Kg wet	1.661		71.5		40-140				
N-Nitrosodi-n-propylamine	1.23	0.34	mg/Kg wet	1.661		74.0		40-140				
Pentachlorophenol	1.08	0.34	mg/Kg wet	1.661		65.2		30-130				
Phenanthrene	1.12	0.17	mg/Kg wet	1.661		67.2		40-140				
Phenol	1.14	0.34	mg/Kg wet	1.661		68.7		30-130				
Pyrene	1.19	0.17	mg/Kg wet	1.661		71.5		40-140				
Pyridine	0.323	0.34	mg/Kg wet	1.661		**19.4**	*	30-140			L-04, V-34, J	†
1,2,4,5-Tetrachlorobenzene	1.04	0.34	mg/Kg wet	1.661		62.5		40-140				
2,4,5-Trichlorophenol	1.17	0.34	mg/Kg wet	1.661		70.2		30-130				
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.661		68.4		30-130				
Surrogate: 2-Fluorophenol	*4.42*		mg/Kg wet	6.645		66.5		30-130				
Surrogate: Phenol-d6	*4.63*		mg/Kg wet	6.645		69.7		30-130				
Surrogate: Nitrobenzene-d5	*2.47*		mg/Kg wet	3.322		74.5		30-130				
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.322		64.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.78*		mg/Kg wet	6.645		87.0		30-130				
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.322		78.9		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391875 - SW-846 3546											
LCS Dup (B391875-BSD1)				Prepared: 11/11/24 Analyzed: 11/13/24							
2,3,4,6-Tetrachlorophenol	1.24	0.67	mg/Kg wet	1.661		74.9	40-140	1.10	20		
Atrazine	1.43	0.67	mg/Kg wet	1.661		86.1	40-140	3.54	30		
Benzaldehyde	0.788	0.34	mg/Kg wet	1.661		47.5	40-140	18.1	20	V-05	
Biphenyl	1.14	0.67	mg/Kg wet	1.661		68.9	40-140	0.462	20		
Caprolactam	1.27	0.34	mg/Kg wet	1.661		76.7	40-140	2.31	20		
Acenaphthene	1.13	0.17	mg/Kg wet	1.661		68.2	40-140	0.879	30		
Acenaphthylene	1.17	0.17	mg/Kg wet	1.661		70.6	40-140	0.250	30		
Acetophenone	1.08	0.34	mg/Kg wet	1.661		65.1	40-140	1.53	30		
Aniline	0.801	0.34	mg/Kg wet	1.661		48.2	10-140	1.84	50		† ‡
Anthracene	1.12	0.17	mg/Kg wet	1.661		67.4	40-140	1.42	30		
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.661		68.1	40-140	4.99	30		
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.661		71.1	40-140	1.54	30		
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.661		72.0	40-140	1.11	30		
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.661		71.3	40-140	11.6	30		
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.661		75.4	40-140	0.525	30		
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.661		76.4	40-140	4.36	30		
Bis(2-chloroethyl)ether	1.13	0.34	mg/Kg wet	1.661		68.3	40-140	5.25	30		
2,2'-oxybis(1-Chloropropane)	1.45	0.34	mg/Kg wet	1.661		87.1	40-140	2.55	30		
Bis(2-Ethylhexyl)phthalate	1.47	0.34	mg/Kg wet	1.661		88.8	40-140	6.36	30		
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.661		71.8	40-140	0.0332	30		
Butylbenzylphthalate	1.33	0.34	mg/Kg wet	1.661		80.0	40-140	0.845	30		
Carbazole	1.13	0.17	mg/Kg wet	1.661		68.2	40-140	2.35	30		
4-Chloroaniline	0.794	0.66	mg/Kg wet	1.661		47.8	10-140	2.04	30		†
4-Chloro-3-methylphenol	1.20	0.66	mg/Kg wet	1.661		72.2	30-130	5.46	30		
2-Chloronaphthalene	0.997	0.34	mg/Kg wet	1.661		60.1	40-140	3.69	30		
2-Chlorophenol	1.06	0.34	mg/Kg wet	1.661		63.9	30-130	1.28	30		
4-Chlorophenylphenylether	1.23	0.34	mg/Kg wet	1.661		74.4	40-140	3.03	30		
Chrysene	1.11	0.17	mg/Kg wet	1.661		66.8	40-140	2.87	30		
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.661		75.2	40-140	9.25	30		
Dibenzofuran	1.17	0.34	mg/Kg wet	1.661		70.7	40-140	0.935	30		
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.661		79.6	40-140	5.60	30		
3,3-Dichlorobenzidine	0.989	0.17	mg/Kg wet	1.661		59.6	20-140	1.00	50		† ‡
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.661		66.7	30-130	1.32	30		
Diethylphthalate	1.32	0.34	mg/Kg wet	1.661		79.3	40-140	3.17	30		
2,4-Dimethylphenol	1.11	0.34	mg/Kg wet	1.661		66.7	30-130	3.63	30		
Dimethylphthalate	1.27	0.34	mg/Kg wet	1.661		76.5	40-140	2.08	30		
4,6-Dinitro-2-methylphenol	1.25	0.34	mg/Kg wet	1.661		75.2	30-130	1.09	30		
2,4-Dinitrophenol	1.20	0.66	mg/Kg wet	1.661		72.3	30-130	3.43	30		
2,4-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.661		86.1	40-140	3.55	30		
2,6-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.661		81.9	40-140	0.260	30		
Di-n-octylphthalate	1.57	0.34	mg/Kg wet	1.661		94.6	40-140	13.6	30		
Fluoranthene	1.16	0.17	mg/Kg wet	1.661		69.9	40-140	0.627	30		
Fluorene	1.18	0.17	mg/Kg wet	1.661		70.8	40-140	0.335	30		
Hexachlorobenzene	1.20	0.34	mg/Kg wet	1.661		72.3	40-140	1.11	30		
Hexachlorobutadiene	1.01	0.34	mg/Kg wet	1.661		60.6	40-140	7.16	30		
Hexachlorocyclopentadiene	1.02	0.34	mg/Kg wet	1.661		61.4	40-140	3.14	30		
Hexachloroethane	0.914	0.34	mg/Kg wet	1.661		55.0	40-140	11.8	30		
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.661		76.8	40-140	10.7	30		
Isophorone	1.25	0.34	mg/Kg wet	1.661		75.4	40-140	2.17	30		
1-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.661		67.5	40-140	3.25	30		
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.661		65.1	40-140	3.31	30		
2-Methylphenol	1.15	0.34	mg/Kg wet	1.661		69.1	30-130	4.65	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391875 - SW-846 3546												
LCS Dup (B391875-BSD1)				Prepared: 11/11/24 Analyzed: 11/13/24								
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.661		76.4		30-130	6.45	30		
Naphthalene	1.02	0.17	mg/Kg wet	1.661		61.6		40-140	5.37	30		
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.661		78.5		40-140	20.2	30		
3-Nitroaniline	1.02	0.34	mg/Kg wet	1.661		61.7		30-140	5.92	30		†
4-Nitroaniline	1.30	0.34	mg/Kg wet	1.661		78.6		40-140	1.55	30		
Nitrobenzene	1.09	0.34	mg/Kg wet	1.661		65.4		40-140	5.59	30		
2-Nitrophenol	1.12	0.34	mg/Kg wet	1.661		67.6		30-130	3.29	30		
4-Nitrophenol	1.21	0.66	mg/Kg wet	1.661		73.0		30-130	6.98	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.15	0.34	mg/Kg wet	1.661		69.5		40-140	2.90	30		
N-Nitrosodi-n-propylamine	1.27	0.34	mg/Kg wet	1.661		76.3		40-140	2.97	30		
Pentachlorophenol	1.07	0.34	mg/Kg wet	1.661		64.5		30-130	1.21	30		
Phenanthrene	1.11	0.17	mg/Kg wet	1.661		66.9		40-140	0.540	30		
Phenol	1.15	0.34	mg/Kg wet	1.661		69.4		30-130	0.952	30		
Pyrene	1.10	0.17	mg/Kg wet	1.661		66.2		40-140	7.70	30		
Pyridine	0.283	0.34	mg/Kg wet	1.661		**17.0**	*	30-140	13.1	30	L-04, V-34, J	†
1,2,4,5-Tetrachlorobenzene	1.01	0.34	mg/Kg wet	1.661		61.1		40-140	2.30	30		
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.661		69.8		30-130	0.548	30		
2,4,6-Trichlorophenol	1.13	0.34	mg/Kg wet	1.661		68.2		30-130	0.297	30		
Surrogate: 2-Fluorophenol	*4.23*		mg/Kg wet	6.642		63.7		30-130				
Surrogate: Phenol-d6	*4.71*		mg/Kg wet	6.642		70.9		30-130				
Surrogate: Nitrobenzene-d5	*2.36*		mg/Kg wet	3.321		71.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.19*		mg/Kg wet	3.321		65.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.83*		mg/Kg wet	6.642		87.8		30-130				
Surrogate: p-Terphenyl-d14	*2.56*		mg/Kg wet	3.321		77.1		30-130				
Matrix Spike (B391875-MS1)		**Source: 24K0174-05**		Prepared: 11/11/24 Analyzed: 11/13/24								
2,3,4,6-Tetrachlorophenol	1.06	0.77	mg/Kg dry	1.927	ND	55.1		40-140				
Atrazine	1.38	0.77	mg/Kg dry	1.927	ND	71.7		40-140				
Benzaldehyde	0.951	0.39	mg/Kg dry	1.927	ND	49.3		40-140			V-05	
Biphenyl	1.23	0.77	mg/Kg dry	1.927	ND	64.0		40-140				
Caprolactam	1.26	0.39	mg/Kg dry	1.927	ND	65.6		40-140				
Acenaphthene	1.19	0.20	mg/Kg dry	1.927	ND	61.5		40-140				
Acenaphthylene	1.22	0.20	mg/Kg dry	1.927	ND	63.5		40-140				
Acetophenone	1.12	0.39	mg/Kg dry	1.927	ND	58.3		40-140				
Aniline	2.77	0.39	mg/Kg dry	1.927	ND	**144**	*	40-140			MS-09	
Anthracene	1.20	0.20	mg/Kg dry	1.927	ND	62.1		40-140				
Benzo(a)anthracene	1.24	0.20	mg/Kg dry	1.927	ND	64.5		40-140				
Benzo(a)pyrene	1.26	0.20	mg/Kg dry	1.927	ND	65.6		40-140				
Benzo(b)fluoranthene	1.28	0.20	mg/Kg dry	1.927	ND	66.5		40-140				
Benzo(g,h,i)perylene	1.27	0.20	mg/Kg dry	1.927	ND	66.0		40-140				
Benzo(k)fluoranthene	1.34	0.20	mg/Kg dry	1.927	ND	69.8		40-140				
Bis(2-chloroethoxy)methane	1.28	0.39	mg/Kg dry	1.927	ND	66.3		40-140				
Bis(2-chloroethyl)ether	1.24	0.39	mg/Kg dry	1.927	ND	64.5		40-140				
2,2'-oxybis(1-Chloropropane)	1.53	0.39	mg/Kg dry	1.927	ND	79.6		40-140				
Bis(2-Ethylhexyl)phthalate	1.58	0.39	mg/Kg dry	1.927	ND	82.1		40-140				
4-Bromophenylphenylether	1.35	0.39	mg/Kg dry	1.927	ND	70.2		40-140				
Butylbenzylphthalate	1.48	0.39	mg/Kg dry	1.927	ND	76.9		40-140				
Carbazole	1.18	0.20	mg/Kg dry	1.927	ND	61.0		40-140				
4-Chloroaniline	0.918	0.76	mg/Kg dry	1.927	ND	47.6		40-140				
4-Chloro-3-methylphenol	1.18	0.76	mg/Kg dry	1.927	ND	61.3		30-130				
2-Chloronaphthalene	1.13	0.39	mg/Kg dry	1.927	ND	58.9		40-140				
2-Chlorophenol	1.09	0.39	mg/Kg dry	1.927	ND	56.4		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391875 - SW-846 3546											
Matrix Spike (B391875-MS1)	**Source: 24K0174-05**			Prepared: 11/11/24 Analyzed: 11/13/24							
4-Chlorophenylphenylether	1.28	0.39	mg/Kg dry	1.927	ND	66.5		40-140			
Chrysene	1.21	0.20	mg/Kg dry	1.927	ND	62.6		40-140			
Dibenz(a,h)anthracene	1.30	0.20	mg/Kg dry	1.927	ND	67.3		40-140			
Dibenzofuran	1.24	0.39	mg/Kg dry	1.927	ND	64.2		40-140			
Di-n-butylphthalate	1.42	0.39	mg/Kg dry	1.927	ND	73.7		40-140			
3,3-Dichlorobenzidine	1.28	0.20	mg/Kg dry	1.927	ND	66.7		40-140			
2,4-Dichlorophenol	1.11	0.39	mg/Kg dry	1.927	ND	57.6		30-130			
Diethylphthalate	1.37	0.39	mg/Kg dry	1.927	ND	71.2		40-140			
2,4-Dimethylphenol	1.12	0.39	mg/Kg dry	1.927	ND	58.0		30-130			
Dimethylphthalate	1.35	0.39	mg/Kg dry	1.927	ND	70.2		40-140			
4,6-Dinitro-2-methylphenol	1.20	0.39	mg/Kg dry	1.927	ND	62.5		30-130			
2,4-Dinitrophenol	1.18	0.76	mg/Kg dry	1.927	ND	61.1		30-130			
2,4-Dinitrotoluene	1.49	0.39	mg/Kg dry	1.927	ND	77.3		40-140			
2,6-Dinitrotoluene	1.41	0.39	mg/Kg dry	1.927	ND	73.0		40-140			
Di-n-octylphthalate	1.74	0.39	mg/Kg dry	1.927	ND	90.5		40-140			
Fluoranthene	1.14	0.20	mg/Kg dry	1.927	ND	59.2		40-140			
Fluorene	1.19	0.20	mg/Kg dry	1.927	ND	61.9		40-140			
Hexachlorobenzene	1.39	0.39	mg/Kg dry	1.927	ND	72.0		40-140			
Hexachlorobutadiene	1.15	0.39	mg/Kg dry	1.927	ND	59.9		40-140			
Hexachlorocyclopentadiene	0.412	0.39	mg/Kg dry	1.927	ND	**21.4**	*	30-130			MS-09
Hexachloroethane	0.956	0.39	mg/Kg dry	1.927	ND	49.6		40-140			
Indeno(1,2,3-cd)pyrene	1.36	0.20	mg/Kg dry	1.927	ND	70.6		40-140			
Isophorone	1.28	0.39	mg/Kg dry	1.927	ND	66.5		40-140			
1-Methylnaphthalene	1.15	0.20	mg/Kg dry	1.927	ND	59.9		40-140			
2-Methylnaphthalene	1.10	0.20	mg/Kg dry	1.927	ND	57.2		40-140			
2-Methylphenol	1.14	0.39	mg/Kg dry	1.927	ND	59.3		30-130			
3/4-Methylphenol	1.24	0.39	mg/Kg dry	1.927	ND	64.3		30-130			
Naphthalene	1.09	0.20	mg/Kg dry	1.927	ND	56.8		40-140			
2-Nitroaniline	1.38	0.39	mg/Kg dry	1.927	ND	71.5		40-140			
3-Nitroaniline	1.18	0.39	mg/Kg dry	1.927	ND	61.3		40-140			
4-Nitroaniline	1.26	0.39	mg/Kg dry	1.927	ND	65.4		40-140			
Nitrobenzene	1.19	0.39	mg/Kg dry	1.927	ND	61.7		40-140			
2-Nitrophenol	1.14	0.39	mg/Kg dry	1.927	ND	59.4		30-130			
4-Nitrophenol	1.22	0.76	mg/Kg dry	1.927	ND	63.5		30-130			
N-Nitrosodiphenylamine/Diphenylamine	1.34	0.39	mg/Kg dry	1.927	ND	69.7		40-140			
N-Nitrosodi-n-propylamine	1.26	0.39	mg/Kg dry	1.927	ND	65.6		40-140			
Pentachlorophenol	0.946	0.39	mg/Kg dry	1.927	ND	49.1		30-130			
Phenanthrene	1.19	0.20	mg/Kg dry	1.927	ND	61.6		40-140			
Phenol	1.16	0.39	mg/Kg dry	1.927	ND	60.3		30-130			
Pyrene	1.30	0.20	mg/Kg dry	1.927	ND	67.3		40-140			
Pyridine	0.330	0.39	mg/Kg dry	1.927	ND	**17.1**	*	40-140			L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	1.11	0.39	mg/Kg dry	1.927	ND	57.8		40-140			
2,4,5-Trichlorophenol	1.14	0.39	mg/Kg dry	1.927	ND	59.4		30-130			
2,4,6-Trichlorophenol	1.01	0.39	mg/Kg dry	1.927	ND	52.6		30-130			
Surrogate: 2-Fluorophenol	*4.45*		mg/Kg dry	7.707		57.7		30-130			
Surrogate: Phenol-d6	*4.74*		mg/Kg dry	7.707		61.5		30-130			
Surrogate: Nitrobenzene-d5	*2.56*		mg/Kg dry	3.853		66.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg dry	3.853		60.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.62*		mg/Kg dry	7.707		60.0		30-130			
Surrogate: p-Terphenyl-d14	*2.95*		mg/Kg dry	3.853		76.6		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391875 - SW-846 3546											
Matrix Spike Dup (B391875-MSD1)	**Source: 24K0174-05**			Prepared: 11/11/24 Analyzed: 11/13/24							
2,3,4,6-Tetrachlorophenol	1.16	0.77	mg/Kg dry	1.924	ND	60.3		40-140	8.84	30	
Atrazine	1.49	0.77	mg/Kg dry	1.924	ND	77.5		40-140	7.69	30	
Benzaldehyde	0.939	0.39	mg/Kg dry	1.924	ND	48.8		40-140	1.23	30	V-05
Biphenyl	1.37	0.77	mg/Kg dry	1.924	ND	71.5		40-140	10.8	30	
Caprolactam	1.34	0.39	mg/Kg dry	1.924	ND	69.5		40-140	5.55	30	
Acenaphthene	1.32	0.20	mg/Kg dry	1.924	ND	68.4		40-140	10.5	30	
Acenaphthylene	1.37	0.20	mg/Kg dry	1.924	ND	71.0		40-140	11.0	30	
Acetophenone	1.20	0.39	mg/Kg dry	1.924	ND	62.3		40-140	6.43	30	
Aniline	2.94	0.39	mg/Kg dry	1.924	ND	**153**	*	40-140	5.76	30	MS-09
Anthracene	1.26	0.20	mg/Kg dry	1.924	ND	65.6		40-140	5.38	30	
Benzo(a)anthracene	1.31	0.20	mg/Kg dry	1.924	ND	68.3		40-140	5.59	30	
Benzo(a)pyrene	1.34	0.20	mg/Kg dry	1.924	ND	69.7		40-140	5.87	30	
Benzo(b)fluoranthene	1.37	0.20	mg/Kg dry	1.924	ND	71.2		40-140	6.75	30	
Benzo(g,h,i)perylene	1.37	0.20	mg/Kg dry	1.924	ND	71.2		40-140	7.36	30	
Benzo(k)fluoranthene	1.44	0.20	mg/Kg dry	1.924	ND	74.8		40-140	6.81	30	
Bis(2-chloroethoxy)methane	1.42	0.39	mg/Kg dry	1.924	ND	73.8		40-140	10.6	30	
Bis(2-chloroethyl)ether	1.29	0.39	mg/Kg dry	1.924	ND	66.9		40-140	3.55	30	
2,2'-oxybis(1-Chloropropane)	1.63	0.39	mg/Kg dry	1.924	ND	84.6		40-140	6.05	30	
Bis(2-Ethylhexyl)phthalate	1.71	0.39	mg/Kg dry	1.924	ND	88.9		40-140	7.82	30	
4-Bromophenylphenylether	1.47	0.39	mg/Kg dry	1.924	ND	76.3		40-140	8.11	30	
Butylbenzylphthalate	1.59	0.39	mg/Kg dry	1.924	ND	82.4		40-140	6.82	30	
Carbazole	1.24	0.20	mg/Kg dry	1.924	ND	64.5		40-140	5.44	30	
4-Chloroaniline	0.998	0.76	mg/Kg dry	1.924	ND	51.9		40-140	8.39	30	
4-Chloro-3-methylphenol	1.30	0.76	mg/Kg dry	1.924	ND	67.7		30-130	9.72	30	
2-Chloronaphthalene	1.29	0.39	mg/Kg dry	1.924	ND	67.0		40-140	12.7	30	
2-Chlorophenol	1.17	0.39	mg/Kg dry	1.924	ND	61.0		30-130	7.67	30	
4-Chlorophenylphenylether	1.41	0.39	mg/Kg dry	1.924	ND	73.4		40-140	9.76	30	
Chrysene	1.24	0.20	mg/Kg dry	1.924	ND	64.6		40-140	2.95	30	
Dibenz(a,h)anthracene	1.41	0.20	mg/Kg dry	1.924	ND	73.2		40-140	8.24	30	
Dibenzofuran	1.37	0.39	mg/Kg dry	1.924	ND	71.4		40-140	10.5	30	
Di-n-butylphthalate	1.50	0.39	mg/Kg dry	1.924	ND	78.2		40-140	5.74	30	
3,3-Dichlorobenzidine	1.36	0.20	mg/Kg dry	1.924	ND	70.9		40-140	6.00	30	
2,4-Dichlorophenol	1.27	0.39	mg/Kg dry	1.924	ND	66.2		30-130	13.8	30	
Diethylphthalate	1.48	0.39	mg/Kg dry	1.924	ND	76.8		40-140	7.43	30	
2,4-Dimethylphenol	1.24	0.39	mg/Kg dry	1.924	ND	64.6		30-130	10.6	30	
Dimethylphthalate	1.47	0.39	mg/Kg dry	1.924	ND	76.3		40-140	8.25	30	
4,6-Dinitro-2-methylphenol	1.24	0.39	mg/Kg dry	1.924	ND	64.3		30-130	2.77	30	
2,4-Dinitrophenol	1.23	0.76	mg/Kg dry	1.924	ND	64.1		30-130	4.72	30	
2,4-Dinitrotoluene	1.60	0.39	mg/Kg dry	1.924	ND	83.1		40-140	7.07	30	
2,6-Dinitrotoluene	1.54	0.39	mg/Kg dry	1.924	ND	80.2		40-140	9.29	30	
Di-n-octylphthalate	1.95	0.39	mg/Kg dry	1.924	ND	101		40-140	11.0	30	
Fluoranthene	1.23	0.20	mg/Kg dry	1.924	ND	63.8		40-140	7.25	30	
Fluorene	1.32	0.20	mg/Kg dry	1.924	ND	68.4		40-140	9.88	30	
Hexachlorobenzene	1.45	0.39	mg/Kg dry	1.924	ND	75.2		40-140	4.22	30	
Hexachlorobutadiene	1.21	0.39	mg/Kg dry	1.924	ND	62.8		40-140	4.59	30	
Hexachlorocyclopentadiene	0.519	0.39	mg/Kg dry	1.924	ND	**27.0**	*	30-130	22.9	30	MS-09
Hexachloroethane	0.949	0.39	mg/Kg dry	1.924	ND	49.3		40-140	0.780	30	
Indeno(1,2,3-cd)pyrene	1.47	0.20	mg/Kg dry	1.924	ND	76.3		40-140	7.66	30	
Isophorone	1.40	0.39	mg/Kg dry	1.924	ND	72.9		40-140	9.02	30	
1-Methylnaphthalene	1.26	0.20	mg/Kg dry	1.924	ND	65.3		40-140	8.55	30	
2-Methylnaphthalene	1.23	0.20	mg/Kg dry	1.924	ND	63.7		40-140	10.6	30	
2-Methylphenol	1.28	0.39	mg/Kg dry	1.924	ND	66.5		30-130	11.3	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391875 - SW-846 3546											
Matrix Spike Dup (B391875-MSD1)	**Source: 24K0174-05**			Prepared: 11/11/24 Analyzed: 11/13/24							
3/4-Methylphenol	1.38	0.39	mg/Kg dry	1.924	ND	71.7		30-130	10.7	30	
Naphthalene	1.19	0.20	mg/Kg dry	1.924	ND	61.9		40-140	8.46	30	
2-Nitroaniline	1.51	0.39	mg/Kg dry	1.924	ND	78.5		40-140	9.18	30	
3-Nitroaniline	1.27	0.39	mg/Kg dry	1.924	ND	66.0		40-140	7.22	30	
4-Nitroaniline	1.38	0.39	mg/Kg dry	1.924	ND	71.6		40-140	8.97	30	
Nitrobenzene	1.26	0.39	mg/Kg dry	1.924	ND	65.6		40-140	6.03	30	
2-Nitrophenol	1.28	0.39	mg/Kg dry	1.924	ND	66.7		30-130	11.5	30	
4-Nitrophenol	1.28	0.76	mg/Kg dry	1.924	ND	66.6		30-130	4.72	30	
N-Nitrosodiphenylamine/Diphenylamine	1.40	0.39	mg/Kg dry	1.924	ND	72.9		40-140	4.38	30	
N-Nitrosodi-n-propylamine	1.39	0.39	mg/Kg dry	1.924	ND	72.3		40-140	9.56	30	
Pentachlorophenol	1.05	0.39	mg/Kg dry	1.924	ND	54.3		30-130	9.96	30	
Phenanthrene	1.27	0.20	mg/Kg dry	1.924	ND	65.9		40-140	6.58	30	
Phenol	1.27	0.39	mg/Kg dry	1.924	ND	66.1		30-130	9.05	30	
Pyrene	1.36	0.20	mg/Kg dry	1.924	ND	70.7		40-140	4.71	30	
Pyridine	0.286	0.39	mg/Kg dry	1.924	ND	**14.8**	*	40-140	14.4	30	L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	1.24	0.39	mg/Kg dry	1.924	ND	64.5		40-140	10.8	30	
2,4,5-Trichlorophenol	1.30	0.39	mg/Kg dry	1.924	ND	67.8		30-130	13.1	30	
2,4,6-Trichlorophenol	1.25	0.39	mg/Kg dry	1.924	ND	64.7		30-130	20.5	30	
Surrogate: 2-Fluorophenol	*4.74*		mg/Kg dry	7.696		61.6		30-130			
Surrogate: Phenol-d6	*5.26*		mg/Kg dry	7.696		68.4		30-130			
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg dry	3.848		71.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg dry	3.848		69.8		30-130			
Surrogate: 2,4,6-Tribromophenol	*5.65*		mg/Kg dry	7.696		73.4		30-130			
Surrogate: p-Terphenyl-d14	*3.20*		mg/Kg dry	3.848		83.1		30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392039 - SW-846 3546										
Blank (B392039-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24						
1,4-Dioxane	ND	0.048	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.174*		mg/Kg wet	0.4794		36.3	15-110			
LCS (B392039-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24						
1,4-Dioxane	0.522	0.048	mg/Kg wet	0.4789		109	40-140			
Surrogate: 1,4-Dioxane-d8	*0.177*		mg/Kg wet	0.4789		37.0	15-110			
LCS Dup (B392039-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24						
1,4-Dioxane	0.532	0.048	mg/Kg wet	0.4794		111	40-140	1.91	30	
Surrogate: 1,4-Dioxane-d8	*0.165*		mg/Kg wet	0.4794		34.5	15-110			
Matrix Spike (B392039-MS1)	**Source: 24K0174-05**			Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.588	0.056	mg/Kg dry	0.5600	ND	105	30-140			
Surrogate: 1,4-Dioxane-d8	*0.223*		mg/Kg dry	0.5600		39.8	15-110			
Matrix Spike Dup (B392039-MSD1)	**Source: 24K0174-05**			Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.590	0.056	mg/Kg dry	0.5592	ND	105	30-140	0.178	30	
Surrogate: 1,4-Dioxane-d8	*0.204*		mg/Kg dry	0.5592		36.4	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
Blank (B392724-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*6.63*		µg/kg wet	7.758		85.5	8-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
Blank (B392724-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Surrogate: 13C5-PFPeA	*3.55*		µg/kg wet	3.879		91.6	35-130			
Surrogate: 13C5-PFHxA	*1.80*		µg/kg wet	1.939		92.9	40-130			
Surrogate: 13C4-PFHpA	*1.79*		µg/kg wet	1.939		92.2	40-130			
Surrogate: 13C8-PFOA	*1.83*		µg/kg wet	1.939		94.6	40-130			
Surrogate: 13C9-PFNA	*0.896*		µg/kg wet	0.9697		92.3	40-130			
Surrogate: 13C6-PFDA	*0.871*		µg/kg wet	0.9697		89.8	40-130			
Surrogate: 13C7-PFUnA	*0.945*		µg/kg wet	0.9697		97.5	40-130			
Surrogate: 13C2-PFDoA	*0.928*		µg/kg wet	0.9697		95.7	40-130			
Surrogate: 13C2-PFTeDA	*0.849*		µg/kg wet	0.9697		87.5	20-130			
Surrogate: 13C3-PFBS	*1.87*		µg/kg wet	1.939		96.2	40-135			
Surrogate: 13C3-PFHxS	*1.82*		µg/kg wet	1.939		94.0	40-130			
Surrogate: 13C8-PFOS	*1.76*		µg/kg wet	1.939		90.7	40-130			
Surrogate: 13C2-4:2FTS	*4.22*		µg/kg wet	3.879		109	40-165			
Surrogate: 13C2-6:2FTS	*3.93*		µg/kg wet	3.879		101	40-215			
Surrogate: 13C2-8:2FTS	*3.69*		µg/kg wet	3.879		95.2	40-275			
Surrogate: 13C8-PFOSA	*1.60*		µg/kg wet	1.939		82.7	40-130			
Surrogate: D3-NMeFOSA	*1.48*		µg/kg wet	1.939		76.3	10-130			
Surrogate: D5-NEtFOSA	*1.56*		µg/kg wet	1.939		80.3	10-130			
Surrogate: D3-NMeFOSAA	*3.47*		µg/kg wet	3.879		89.4	40-135			
Surrogate: D5-NEtFOSAA	*3.43*		µg/kg wet	3.879		88.3	40-150			
Surrogate: D7-NMeFOSE	*16.1*		µg/kg wet	19.39		83.2	20-130			
Surrogate: D9-NEtFOSE	*15.9*		µg/kg wet	19.39		82.0	15-130			
Surrogate: 13C3-HFPO-DA	*7.20*		µg/kg wet	7.758		92.8	40-130			
LCS (B392724-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	8.65	0.78	µg/kg wet	7.846		110	70-140			
Perfluoropentanoic acid (PFPeA)	4.41	0.39	µg/kg wet	3.923		112	60-150			
Perfluorohexanoic acid (PFHxA)	2.22	0.20	µg/kg wet	1.962		113	65-140			
Perfluoroheptanoic acid (PFHpA)	2.12	0.20	µg/kg wet	1.962		108	65-145			
Perfluorooctanoic acid (PFOA)	2.09	0.20	µg/kg wet	1.962		107	70-150			
Perfluorononanoic acid (PFNA)	2.19	0.20	µg/kg wet	1.962		112	70-155			
Perfluorodecanoic acid (PFDA)	2.30	0.20	µg/kg wet	1.962		117	70-155			
Perfluoroundecanoic acid (PFUnA)	2.32	0.20	µg/kg wet	1.962		118	70-155			
Perfluorododecanoic acid (PFDoA)	2.32	0.20	µg/kg wet	1.962		118	70-150			
Perfluorotridecanoic acid (PFTrDA)	2.15	0.20	µg/kg wet	1.962		110	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.30	0.20	µg/kg wet	1.962		117	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.95	0.20	µg/kg wet	1.742		112	65-145			
Perfluoropentanesulfonic acid (PFPeS)	2.15	0.20	µg/kg wet	1.844		117	55-160			
Perfluorohexanesulfonic acid (PFHxS)	2.01	0.20	µg/kg wet	1.789		112	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.06	0.20	µg/kg wet	1.867		110	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.93	0.20	µg/kg wet	1.820		106	65-160			
Perfluorononanesulfonic acid (PFNS)	2.20	0.20	µg/kg wet	1.883		117	55-140			
Perfluorodecanesulfonic acid (PFDS)	2.13	0.20	µg/kg wet	1.891		113	40-155			
Perfluorododecanesulfonic acid (PFDoS)	2.02	0.20	µg/kg wet	1.899		107	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.92	0.78	µg/kg wet	7.352		121	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.23	0.78	µg/kg wet	7.462		124	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.91	0.78	µg/kg wet	7.532		118	70-150			
Perfluorooctanesulfonamide (PFOSA)	2.15	0.20	µg/kg wet	1.962		110	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.16	0.20	µg/kg wet	1.962		110	70-155			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
LCS (B392724-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.17	0.20	µg/kg wet	1.962		111	70-140			
N-MeFOSAA (NMeFOSAA)	1.96	0.20	µg/kg wet	1.962		99.7	65-155			
N-EtFOSAA (NEtFOSAA)	2.06	0.20	µg/kg wet	1.962		105	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.7	2.0	µg/kg wet	19.62		110	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.8	2.0	µg/kg wet	19.62		111	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.85	0.78	µg/kg wet	7.846		113	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.02	0.78	µg/kg wet	7.415		108	70-160			
9Cl-PF3ONS (F53B Minor)	8.29	0.78	µg/kg wet	7.321		113	70-150			
11Cl-PF3OUdS (F53B Major)	8.89	0.78	µg/kg wet	7.399		120	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	7.70	0.98	µg/kg wet	9.808		78.5	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	53.2	4.9	µg/kg wet	49.04		108	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	51.2	4.9	µg/kg wet	49.04		104	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.33	0.39	µg/kg wet	3.499		124	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.41	0.39	µg/kg wet	3.923		113	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.32	0.39	µg/kg wet	3.923		110	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.54	0.39	µg/kg wet	3.923		116	60-155			
Surrogate: 13C4-PFBA	*6.48*		µg/kg wet	7.846		82.6	8-130			
Surrogate: 13C5-PFPeA	*3.48*		µg/kg wet	3.923		88.6	35-130			
Surrogate: 13C5-PFHxA	*1.69*		µg/kg wet	1.962		86.0	40-130			
Surrogate: 13C4-PFHpA	*1.75*		µg/kg wet	1.962		89.5	40-130			
Surrogate: 13C8-PFOA	*1.84*		µg/kg wet	1.962		93.9	40-130			
Surrogate: 13C9-PFNA	*0.834*		µg/kg wet	0.9808		85.0	40-130			
Surrogate: 13C6-PFDA	*0.890*		µg/kg wet	0.9808		90.8	40-130			
Surrogate: 13C7-PFUnA	*0.886*		µg/kg wet	0.9808		90.3	40-130			
Surrogate: 13C2-PFDoA	*0.868*		µg/kg wet	0.9808		88.5	40-130			
Surrogate: 13C2-PFTeDA	*0.827*		µg/kg wet	0.9808		84.3	20-130			
Surrogate: 13C3-PFBS	*1.66*		µg/kg wet	1.962		84.5	40-135			
Surrogate: 13C3-PFHxS	*1.70*		µg/kg wet	1.962		86.9	40-130			
Surrogate: 13C8-PFOS	*1.78*		µg/kg wet	1.962		90.9	40-130			
Surrogate: 13C2-4:2FTS	*3.56*		µg/kg wet	3.923		90.9	40-165			
Surrogate: 13C2-6:2FTS	*3.46*		µg/kg wet	3.923		88.1	40-215			
Surrogate: 13C2-8:2FTS	*3.85*		µg/kg wet	3.923		98.1	40-275			
Surrogate: 13C8-PFOSA	*1.59*		µg/kg wet	1.962		81.2	40-130			
Surrogate: D3-NMeFOSA	*1.46*		µg/kg wet	1.962		74.4	10-130			
Surrogate: D5-NEtFOSA	*1.53*		µg/kg wet	1.962		78.1	10-130			
Surrogate: D3-NMeFOSAA	*3.33*		µg/kg wet	3.923		84.8	40-135			
Surrogate: D5-NEtFOSAA	*3.34*		µg/kg wet	3.923		85.3	40-150			
Surrogate: D7-NMeFOSE	*16.0*		µg/kg wet	19.62		81.5	20-130			
Surrogate: D9-NEtFOSE	*16.0*		µg/kg wet	19.62		81.8	15-130			
Surrogate: 13C3-HFPO-DA	*7.19*		µg/kg wet	7.846		91.6	40-130			
MRL Check (B392724-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	0.767	0.77	µg/kg wet	0.7723		99.3	70-140			J
Perfluoropentanoic acid (PFPeA)	0.334	0.39	µg/kg wet	0.3862		86.6	60-150			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
MRL Check (B392724-MRL1)			Prepared: 11/27/24 Analyzed: 12/03/24							
Perfluorohexanoic acid (PFHxA)	0.195	0.19	µg/kg wet	0.1931		101	65-140			
Perfluoroheptanoic acid (PFHpA)	0.192	0.19	µg/kg wet	0.1931		99.3	65-145			J
Perfluorooctanoic acid (PFOA)	0.181	0.19	µg/kg wet	0.1931		93.9	70-150			J
Perfluorononanoic acid (PFNA)	0.185	0.19	µg/kg wet	0.1931		95.7	70-155			J
Perfluorodecanoic acid (PFDA)	0.175	0.19	µg/kg wet	0.1931		90.5	70-155			J
Perfluoroundecanoic acid (PFUnA)	0.176	0.19	µg/kg wet	0.1931		91.0	70-155			J
Perfluorododecanoic acid (PFDoA)	0.179	0.19	µg/kg wet	0.1931		92.5	70-150			J
Perfluorotridecanoic acid (PFTrDA)	0.174	0.19	µg/kg wet	0.1931		89.9	65-150			J
Perfluorotetradecanoic acid (PFTeDA)	0.176	0.19	µg/kg wet	0.1931		91.1	65-150			J
Perfluorobutanesulfonic acid (PFBS)	0.150	0.19	µg/kg wet	0.1715		87.7	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.19	µg/kg wet	0.1815		104	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.19	µg/kg wet	0.1761		103	60-150			J
Perfluoroheptanesulfonic acid (PFHpS)	0.179	0.19	µg/kg wet	0.1838		97.1	65-155			J
Perfluorooctanesulfonic acid (PFOS)	0.180	0.19	µg/kg wet	0.1792		100	65-160			J
Perfluorononanesulfonic acid (PFNS)	0.194	0.19	µg/kg wet	0.1854		105	55-140			
Perfluorodecanesulfonic acid (PFDS)	0.173	0.19	µg/kg wet	0.1861		93.1	40-155			J
Perfluorododecanesulfonic acid (PFDoS)	0.191	0.19	µg/kg wet	0.1869		102	25-160			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.686	0.77	µg/kg wet	0.7237		94.8	60-150			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.674	0.77	µg/kg wet	0.7345		91.8	55-200			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.783	0.77	µg/kg wet	0.7415		106	70-150			
Perfluorooctanesulfonamide (PFOSA)	0.174	0.19	µg/kg wet	0.1931		90.2	70-140			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.173	0.19	µg/kg wet	0.1931		89.6	70-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.182	0.19	µg/kg wet	0.1931		94.0	70-140			J
N-MeFOSAA (NMeFOSAA)	0.189	0.19	µg/kg wet	0.1931		97.9	65-155			J
N-EtFOSAA (NEtFOSAA)	0.176	0.19	µg/kg wet	0.1931		91.3	65-165			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.72	1.9	µg/kg wet	1.931		89.3	70-140			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.69	1.9	µg/kg wet	1.931		87.4	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.736	0.77	µg/kg wet	0.7723		95.3	70-145			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.737	0.77	µg/kg wet	0.7299		101	70-160			J
9Cl-PF3ONS (F53B Minor)	0.710	0.77	µg/kg wet	0.7206		98.5	70-150			J
11Cl-PF3OUdS (F53B Major)	0.712	0.77	µg/kg wet	0.7283		97.8	45-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.629	0.97	µg/kg wet	0.9654		65.2	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	4.12	4.8	µg/kg wet	4.827		85.5	60-130			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	3.95	4.8	µg/kg wet	4.827		81.8	60-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.360	0.39	µg/kg wet	0.3445		104	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.362	0.39	µg/kg wet	0.3862		93.7	30-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.389	0.39	µg/kg wet	0.3862		101	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.372	0.39	µg/kg wet	0.3862		96.3	60-155			J
Surrogate: 13C4-PFBA	*7.31*		µg/kg wet	7.723		94.6	8-130			
Surrogate: 13C5-PFPeA	*3.72*		µg/kg wet	3.862		96.3	35-130			
Surrogate: 13C5-PFHxA	*1.83*		µg/kg wet	1.931		94.7	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
MRL Check (B392724-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Surrogate: 13C4-PFHpA	*1.83*		µg/kg wet	1.931		94.9	40-130			
Surrogate: 13C8-PFOA	*1.89*		µg/kg wet	1.931		98.1	40-130			
Surrogate: 13C9-PFNA	*0.873*		µg/kg wet	0.9654		90.4	40-130			
Surrogate: 13C6-PFDA	*0.969*		µg/kg wet	0.9654		100	40-130			
Surrogate: 13C7-PFUnA	*0.967*		µg/kg wet	0.9654		100	40-130			
Surrogate: 13C2-PFDoA	*0.998*		µg/kg wet	0.9654		103	40-130			
Surrogate: 13C2-PFTeDA	*0.916*		µg/kg wet	0.9654		94.9	20-130			
Surrogate: 13C3-PFBS	*1.84*		µg/kg wet	1.931		95.5	40-135			
Surrogate: 13C3-PFHxS	*1.82*		µg/kg wet	1.931		94.4	40-130			
Surrogate: 13C8-PFOS	*1.83*		µg/kg wet	1.931		94.6	40-130			
Surrogate: 13C2-4:2FTS	*4.08*		µg/kg wet	3.862		106	40-165			
Surrogate: 13C2-6:2FTS	*3.99*		µg/kg wet	3.862		103	40-215			
Surrogate: 13C2-8:2FTS	*4.04*		µg/kg wet	3.862		105	40-275			
Surrogate: 13C8-PFOSA	*1.70*		µg/kg wet	1.931		88.2	40-130			
Surrogate: D3-NMeFOSA	*1.61*		µg/kg wet	1.931		83.5	10-130			
Surrogate: D5-NEtFOSA	*1.58*		µg/kg wet	1.931		81.9	10-130			
Surrogate: D3-NMeFOSAA	*3.47*		µg/kg wet	3.862		89.9	40-135			
Surrogate: D5-NEtFOSAA	*3.36*		µg/kg wet	3.862		87.0	40-150			
Surrogate: D7-NMeFOSE	*17.1*		µg/kg wet	19.31		88.5	20-130			
Surrogate: D9-NEtFOSE	*17.1*		µg/kg wet	19.31		88.7	15-130			
Surrogate: 13C3-HFPO-DA	*7.81*		µg/kg wet	7.723		101	40-130			
Matrix Spike (B392724-MS1)		**Source: 24K0174-05**		Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	8.01	0.79	µg/kg dry	7.916	ND	101	70-140			
Perfluoropentanoic acid (PFPeA)	4.12	0.40	µg/kg dry	3.958	ND	104	60-150			
Perfluorohexanoic acid (PFHxA)	2.02	0.20	µg/kg dry	1.979	ND	102	65-140			
Perfluoroheptanoic acid (PFHpA)	2.08	0.20	µg/kg dry	1.979	ND	105	65-145			
Perfluorooctanoic acid (PFOA)	2.06	0.20	µg/kg dry	1.979	ND	104	70-150			
Perfluorononanoic acid (PFNA)	2.06	0.20	µg/kg dry	1.979	ND	104	70-155			
Perfluorodecanoic acid (PFDA)	2.12	0.20	µg/kg dry	1.979	ND	107	70-155			
Perfluoroundecanoic acid (PFUnA)	2.04	0.20	µg/kg dry	1.979	ND	103	70-155			
Perfluorododecanoic acid (PFDoA)	2.18	0.20	µg/kg dry	1.979	ND	110	70-150			
Perfluorotridecanoic acid (PFTrDA)	2.01	0.20	µg/kg dry	1.979	ND	102	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.24	0.20	µg/kg dry	1.979	ND	113	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.91	0.20	µg/kg dry	1.757	ND	109	65-145			
Perfluoropentanesulfonic acid (PFPeS)	2.00	0.20	µg/kg dry	1.860	ND	107	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.85	0.20	µg/kg dry	1.805	ND	102	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.02	0.20	µg/kg dry	1.884	ND	107	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.77	0.20	µg/kg dry	1.836	ND	96.5	65-160			
Perfluorononanesulfonic acid (PFNS)	2.08	0.20	µg/kg dry	1.900	ND	110	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.98	0.20	µg/kg dry	1.908	ND	104	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.88	0.20	µg/kg dry	1.916	ND	98.4	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.30	0.79	µg/kg dry	7.417	ND	112	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.00	0.79	µg/kg dry	7.528	ND	120	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.64	0.79	µg/kg dry	7.599	ND	114	70-150			
Perfluorooctanesulfonamide (PFOSA)	2.07	0.20	µg/kg dry	1.979	ND	105	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.08	0.20	µg/kg dry	1.979	ND	105	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.03	0.20	µg/kg dry	1.979	ND	103	70-140			
N-MeFOSAA (NMeFOSAA)	1.67	0.20	µg/kg dry	1.979	ND	84.6	65-155			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
Matrix Spike (B392724-MS1)	**Source: 24K0174-05**			Prepared: 11/27/24 Analyzed: 12/03/24						
N-EtFOSAA (NEtFOSAA)	2.00	0.20	µg/kg dry	1.979	ND	101	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.5	2.0	µg/kg dry	19.79	ND	104	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.7	2.0	µg/kg dry	19.79	ND	105	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.30	0.79	µg/kg dry	7.916	ND	105	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.81	0.79	µg/kg dry	7.481	ND	104	70-160			
9Cl-PF3ONS (F53B Minor)	7.97	0.79	µg/kg dry	7.386	ND	108	70-150			
11Cl-PF3OUdS (F53B Major)	8.18	0.79	µg/kg dry	7.465	ND	110	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.73	0.99	µg/kg dry	9.895	ND	57.9	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	47.8	4.9	µg/kg dry	49.47	ND	96.6	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	47.4	4.9	µg/kg dry	49.47	ND	95.8	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.88	0.40	µg/kg dry	3.530	ND	110	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.26	0.40	µg/kg dry	3.958	ND	108	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.23	0.40	µg/kg dry	3.958	ND	107	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.16	0.40	µg/kg dry	3.958	ND	105	60-155			
Surrogate: 13C4-PFBA	*7.57*		µg/kg dry	7.916		95.7	8-130			
Surrogate: 13C5-PFPeA	*3.98*		µg/kg dry	3.958		101	35-130			
Surrogate: 13C5-PFHxA	*2.02*		µg/kg dry	1.979		102	40-130			
Surrogate: 13C4-PFHpA	*1.99*		µg/kg dry	1.979		101	40-130			
Surrogate: 13C8-PFOA	*2.01*		µg/kg dry	1.979		102	40-130			
Surrogate: 13C9-PFNA	*0.938*		µg/kg dry	0.9895		94.8	40-130			
Surrogate: 13C6-PFDA	*1.04*		µg/kg dry	0.9895		105	40-130			
Surrogate: 13C7-PFUnA	*1.13*		µg/kg dry	0.9895		114	40-130			
Surrogate: 13C2-PFDoA	*1.07*		µg/kg dry	0.9895		108	40-130			
Surrogate: 13C2-PFTeDA	*0.978*		µg/kg dry	0.9895		98.8	20-130			
Surrogate: 13C3-PFBS	*2.04*		µg/kg dry	1.979		103	40-135			
Surrogate: 13C3-PFHxS	*2.16*		µg/kg dry	1.979		109	40-130			
Surrogate: 13C8-PFOS	*1.85*		µg/kg dry	1.979		93.3	40-130			
Surrogate: 13C2-4:2FTS	*4.50*		µg/kg dry	3.958		114	40-165			
Surrogate: 13C2-6:2FTS	*4.42*		µg/kg dry	3.958		112	40-215			
Surrogate: 13C2-8:2FTS	*4.40*		µg/kg dry	3.958		111	40-275			
Surrogate: 13C8-PFOSA	*1.60*		µg/kg dry	1.979		80.6	40-130			
Surrogate: D3-NMeFOSA	*1.50*		µg/kg dry	1.979		75.8	10-130			
Surrogate: D5-NEtFOSA	*1.56*		µg/kg dry	1.979		78.7	10-130			
Surrogate: D3-NMeFOSAA	*3.36*		µg/kg dry	3.958		85.0	40-135			
Surrogate: D5-NEtFOSAA	*3.21*		µg/kg dry	3.958		81.2	40-150			
Surrogate: D7-NMeFOSE	*16.3*		µg/kg dry	19.79		82.2	20-130			
Surrogate: D9-NEtFOSE	*16.2*		µg/kg dry	19.79		81.9	15-130			
Surrogate: 13C3-HFPO-DA	*8.39*		µg/kg dry	7.916		106	40-130			
Matrix Spike Dup (B392724-MSD1)	**Source: 24K0174-05**			Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	7.89	0.79	µg/kg dry	7.866	ND	100	70-140	1.54	25	
Perfluoropentanoic acid (PFPeA)	3.97	0.39	µg/kg dry	3.933	ND	101	60-150	3.49	25	
Perfluorohexanoic acid (PFHxA)	2.00	0.20	µg/kg dry	1.967	ND	102	65-140	1.32	25	
Perfluoroheptanoic acid (PFHpA)	2.06	0.20	µg/kg dry	1.967	ND	105	65-145	0.978	25	
Perfluorooctanoic acid (PFOA)	2.03	0.20	µg/kg dry	1.967	ND	103	70-150	1.37	25	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
Matrix Spike Dup (B392724-MSD1)	**Source: 24K0174-05**			Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorononanoic acid (PFNA)	1.99	0.20	µg/kg dry	1.967	ND	101	70-155	3.08	25	
Perfluorodecanoic acid (PFDA)	2.14	0.20	µg/kg dry	1.967	ND	109	70-155	1.02	25	
Perfluoroundecanoic acid (PFUnA)	1.97	0.20	µg/kg dry	1.967	ND	100	70-155	3.46	25	
Perfluorododecanoic acid (PFDoA)	2.09	0.20	µg/kg dry	1.967	ND	106	70-150	4.07	25	
Perfluorotridecanoic acid (PFTrDA)	1.98	0.20	µg/kg dry	1.967	ND	101	65-150	1.52	25	
Perfluorotetradecanoic acid (PFTeDA)	2.08	0.20	µg/kg dry	1.967	ND	106	65-150	7.50	25	
Perfluorobutanesulfonic acid (PFBS)	1.72	0.20	µg/kg dry	1.746	ND	98.7	65-145	10.4	25	
Perfluoropentanesulfonic acid (PFPeS)	1.94	0.20	µg/kg dry	1.849	ND	105	55-160	2.80	25	
Perfluorohexanesulfonic acid (PFHxS)	1.79	0.20	µg/kg dry	1.793	ND	100	60-150	2.81	25	
Perfluoroheptanesulfonic acid (PFHpS)	1.91	0.20	µg/kg dry	1.872	ND	102	65-155	5.86	25	
Perfluorooctanesulfonic acid (PFOS)	1.79	0.20	µg/kg dry	1.825	ND	98.3	65-160	1.21	25	
Perfluorononanesulfonic acid (PFNS)	1.90	0.20	µg/kg dry	1.888	ND	101	55-140	8.97	25	
Perfluorodecanesulfonic acid (PFDS)	1.94	0.20	µg/kg dry	1.896	ND	102	40-155	2.05	25	
Perfluorododecanesulfonic acid (PFDoS)	1.76	0.20	µg/kg dry	1.904	ND	92.4	25-160	6.93	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.39	0.79	µg/kg dry	7.371	ND	114	60-150	1.13	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.68	0.79	µg/kg dry	7.481	ND	116	55-200	3.65	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.25	0.79	µg/kg dry	7.552	ND	109	70-150	4.63	25	
Perfluorooctanesulfonamide (PFOSA)	1.97	0.20	µg/kg dry	1.967	ND	100	70-140	4.84	25	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.97	0.20	µg/kg dry	1.967	ND	100	70-155	5.21	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.06	0.20	µg/kg dry	1.967	ND	105	70-140	1.56	25	
N-MeFOSAA (NMeFOSAA)	1.77	0.20	µg/kg dry	1.967	ND	90.2	65-155	5.78	25	
N-EtFOSAA (NEtFOSAA)	1.84	0.20	µg/kg dry	1.967	ND	93.8	65-165	8.30	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.1	2.0	µg/kg dry	19.67	ND	102	70-140	1.86	25	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.4	2.0	µg/kg dry	19.67	ND	104	70-135	1.67	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.42	0.79	µg/kg dry	7.866	ND	107	70-145	1.43	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.62	0.79	µg/kg dry	7.434	ND	102	70-160	2.49	25	
9Cl-PF3ONS (F53B Minor)	7.37	0.79	µg/kg dry	7.339	ND	100	70-150	7.77	25	
11Cl-PF3OUdS (F53B Major)	8.12	0.79	µg/kg dry	7.418	ND	109	45-160	0.660	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	6.45	0.98	µg/kg dry	9.833	ND	65.6	45-130	11.9	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	46.4	4.9	µg/kg dry	49.16	ND	94.3	60-130	3.06	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	46.4	4.9	µg/kg dry	49.16	ND	94.4	60-150	2.09	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.84	0.39	µg/kg dry	3.508	ND	109	70-140	1.04	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.19	0.39	µg/kg dry	3.933	ND	107	30-140	1.49	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.03	0.39	µg/kg dry	3.933	ND	103	60-150	4.84	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.09	0.39	µg/kg dry	3.933	ND	104	60-155	1.65	25	
Surrogate: 13C4-PFBA	*8.24*		µg/kg dry	7.866		105	8-130			
Surrogate: 13C5-PFPeA	*4.33*		µg/kg dry	3.933		110	35-130			
Surrogate: 13C5-PFHxA	*2.19*		µg/kg dry	1.967		111	40-130			
Surrogate: 13C4-PFHpA	*2.12*		µg/kg dry	1.967		108	40-130			
Surrogate: 13C8-PFOA	*2.31*		µg/kg dry	1.967		117	40-130			
Surrogate: 13C9-PFNA	*1.06*		µg/kg dry	0.9833		107	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392724 - EPA 1633										
Matrix Spike Dup (B392724-MSD1)	**Source: 24K0174-05**			Prepared: 11/27/24 Analyzed: 12/03/24						
Surrogate: 13C6-PFDA	*1.06*		µg/kg dry	0.9833		108	40-130			
Surrogate: 13C7-PFUnA	*1.14*		µg/kg dry	0.9833		116	40-130			
Surrogate: 13C2-PFDoA	*1.08*		µg/kg dry	0.9833		109	40-130			
Surrogate: 13C2-PFTeDA	*1.01*		µg/kg dry	0.9833		103	20-130			
Surrogate: 13C3-PFBS	*2.16*		µg/kg dry	1.967		110	40-135			
Surrogate: 13C3-PFHxS	*2.09*		µg/kg dry	1.967		107	40-130			
Surrogate: 13C8-PFOS	*2.22*		µg/kg dry	1.967		113	40-130			
Surrogate: 13C2-4:2FTS	*4.19*		µg/kg dry	3.933		106	40-165			
Surrogate: 13C2-6:2FTS	*4.17*		µg/kg dry	3.933		106	40-215			
Surrogate: 13C2-8:2FTS	*4.48*		µg/kg dry	3.933		114	40-275			
Surrogate: 13C8-PFOSA	*1.96*		µg/kg dry	1.967		99.9	40-130			
Surrogate: D3-NMeFOSA	*1.83*		µg/kg dry	1.967		92.9	10-130			
Surrogate: D5-NEtFOSA	*1.82*		µg/kg dry	1.967		92.6	10-130			
Surrogate: D3-NMeFOSAA	*4.06*		µg/kg dry	3.933		103	40-135			
Surrogate: D5-NEtFOSAA	*4.17*		µg/kg dry	3.933		106	40-150			
Surrogate: D7-NMeFOSE	*20.4*		µg/kg dry	19.67		104	20-130			
Surrogate: D9-NEtFOSE	*20.8*		µg/kg dry	19.67		106	15-130			
Surrogate: 13C3-HFPO-DA	*8.89*		µg/kg dry	7.866		113	40-130			

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391875 - SW-846 3546										
Blank (B391875-BLK1)			Prepared: 11/11/24 Analyzed: 11/13/24							
3-Penten-2-one, 4-methyl-	1.2		mg/Kg wet							B
Heptane, 2,3-dimethyl-	0.19		mg/Kg wet							B
Heptane, 2,5-dimethyl-	0.46		mg/Kg wet							B
Hexane, 2,3,5-trimethyl-	0.074		mg/Kg wet							B

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392205 - SW-846 3546										
Blank (B392205-BLK1)				Prepared: 11/14/24 Analyzed: 11/18/24						
alpha-Chlordane	ND	0.0049	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0049	mg/Kg wet							
gamma-Chlordane	ND	0.0049	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0049	mg/Kg wet							
Aldrin	ND	0.0049	mg/Kg wet							
Aldrin [2C]	ND	0.0049	mg/Kg wet							
alpha-BHC	ND	0.0049	mg/Kg wet							
alpha-BHC [2C]	ND	0.0049	mg/Kg wet							
beta-BHC	ND	0.0049	mg/Kg wet							
beta-BHC [2C]	ND	0.0049	mg/Kg wet							
delta-BHC	ND	0.0049	mg/Kg wet							
delta-BHC [2C]	ND	0.0049	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
4,4'-DDD	ND	0.0039	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0039	mg/Kg wet							
4,4'-DDE	ND	0.0039	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0039	mg/Kg wet							
4,4'-DDT	ND	0.0039	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0039	mg/Kg wet							
Dieldrin	ND	0.0039	mg/Kg wet							
Dieldrin [2C]	ND	0.0039	mg/Kg wet							
Endosulfan I	ND	0.0049	mg/Kg wet							
Endosulfan I [2C]	ND	0.0049	mg/Kg wet							
Endosulfan II	ND	0.0079	mg/Kg wet							
Endosulfan II [2C]	ND	0.0079	mg/Kg wet							
Endosulfan Sulfate	ND	0.0079	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0079	mg/Kg wet							
Endrin	ND	0.0079	mg/Kg wet							
Endrin [2C]	ND	0.0079	mg/Kg wet							
Endrin Aldehyde	ND	0.0079	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0079	mg/Kg wet							
Endrin Ketone	ND	0.0079	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0079	mg/Kg wet							
Heptachlor	ND	0.0049	mg/Kg wet							
Heptachlor [2C]	ND	0.0049	mg/Kg wet							
Heptachlor Epoxide	ND	0.0049	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0049	mg/Kg wet							
Methoxychlor	ND	0.049	mg/Kg wet							
Methoxychlor [2C]	ND	0.049	mg/Kg wet							
Toxaphene	ND	0.099	mg/Kg wet							
Toxaphene [2C]	ND	0.099	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg wet	0.1972		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.145*		mg/Kg wet	0.1972		73.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.135*		mg/Kg wet	0.1972		68.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.1972		71.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392205 - SW-846 3546										
LCS (B392205-BS1)				Prepared: 11/14/24 Analyzed: 11/18/24						
alpha-Chlordane	0.076	0.0049	mg/Kg wet	0.09881		76.4	40-140			
alpha-Chlordane [2C]	0.081	0.0049	mg/Kg wet	0.09881		81.7	40-140			
gamma-Chlordane	0.081	0.0049	mg/Kg wet	0.09881		82.4	40-140			
gamma-Chlordane [2C]	0.081	0.0049	mg/Kg wet	0.09881		82.2	40-140			
Aldrin	0.076	0.0049	mg/Kg wet	0.09881		77.2	40-140			
Aldrin [2C]	0.082	0.0049	mg/Kg wet	0.09881		82.6	40-140			
alpha-BHC	0.079	0.0049	mg/Kg wet	0.09881		80.3	40-140			
alpha-BHC [2C]	0.078	0.0049	mg/Kg wet	0.09881		79.2	40-140			
beta-BHC	0.068	0.0049	mg/Kg wet	0.09881		68.8	40-140			
beta-BHC [2C]	0.078	0.0049	mg/Kg wet	0.09881		78.6	40-140			
delta-BHC	0.062	0.0049	mg/Kg wet	0.09881		62.4	40-140			
delta-BHC [2C]	0.064	0.0049	mg/Kg wet	0.09881		64.7	40-140			
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.09881		75.6	40-140			
gamma-BHC (Lindane) [2C]	0.079	0.0020	mg/Kg wet	0.09881		80.2	40-140			
4,4'-DDD	0.080	0.0040	mg/Kg wet	0.09881		81.1	40-140			
4,4'-DDD [2C]	0.085	0.0040	mg/Kg wet	0.09881		86.3	40-140			
4,4'-DDE	0.081	0.0040	mg/Kg wet	0.09881		81.5	40-140			
4,4'-DDE [2C]	0.085	0.0040	mg/Kg wet	0.09881		85.7	40-140			
4,4'-DDT	0.074	0.0040	mg/Kg wet	0.09881		75.3	40-140			
4,4'-DDT [2C]	0.076	0.0040	mg/Kg wet	0.09881		77.2	40-140			
Dieldrin	0.079	0.0040	mg/Kg wet	0.09881		79.8	40-140			
Dieldrin [2C]	0.085	0.0040	mg/Kg wet	0.09881		85.8	40-140			
Endosulfan I	0.076	0.0049	mg/Kg wet	0.09881		76.9	40-140			
Endosulfan I [2C]	0.082	0.0049	mg/Kg wet	0.09881		83.2	40-140			
Endosulfan II	0.075	0.0079	mg/Kg wet	0.09881		75.4	40-140			
Endosulfan II [2C]	0.082	0.0079	mg/Kg wet	0.09881		83.3	40-140			
Endosulfan Sulfate	0.065	0.0079	mg/Kg wet	0.09881		65.4	40-140			
Endosulfan Sulfate [2C]	0.074	0.0079	mg/Kg wet	0.09881		74.7	40-140			
Endrin	0.083	0.0079	mg/Kg wet	0.09881		83.8	40-140			
Endrin [2C]	0.083	0.0079	mg/Kg wet	0.09881		84.1	40-140			
Endrin Aldehyde	0.064	0.0079	mg/Kg wet	0.09881		65.2	40-140			
Endrin Aldehyde [2C]	0.074	0.0079	mg/Kg wet	0.09881		74.8	40-140			
Endrin Ketone	0.076	0.0079	mg/Kg wet	0.09881		76.6	40-140			
Endrin Ketone [2C]	0.074	0.0079	mg/Kg wet	0.09881		74.8	40-140			
Heptachlor	0.080	0.0049	mg/Kg wet	0.09881		81.0	40-140			
Heptachlor [2C]	0.084	0.0049	mg/Kg wet	0.09881		85.4	40-140			
Heptachlor Epoxide	0.078	0.0049	mg/Kg wet	0.09881		79.2	40-140			
Heptachlor Epoxide [2C]	0.083	0.0049	mg/Kg wet	0.09881		83.5	40-140			
Methoxychlor	0.074	0.049	mg/Kg wet	0.09881		74.7	40-140			
Methoxychlor [2C]	0.078	0.049	mg/Kg wet	0.09881		78.9	40-140			
Surrogate: Decachlorobiphenyl	*0.173*		mg/Kg wet	0.1976		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.1976		82.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.1976		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.154*		mg/Kg wet	0.1976		78.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392205 - SW-846 3546										
LCS Dup (B392205-BSD1)				Prepared: 11/14/24 Analyzed: 11/18/24						
alpha-Chlordane	0.068	0.0049	mg/Kg wet	0.09891		68.8	40-140	10.4	30	
alpha-Chlordane [2C]	0.073	0.0049	mg/Kg wet	0.09891		73.9	40-140	9.91	30	
gamma-Chlordane	0.073	0.0049	mg/Kg wet	0.09891		74.0	40-140	10.7	30	
gamma-Chlordane [2C]	0.073	0.0049	mg/Kg wet	0.09891		74.2	40-140	10.1	30	
Aldrin	0.069	0.0049	mg/Kg wet	0.09891		69.6	40-140	10.3	30	
Aldrin [2C]	0.074	0.0049	mg/Kg wet	0.09891		74.9	40-140	9.61	30	
alpha-BHC	0.072	0.0049	mg/Kg wet	0.09891		72.3	40-140	10.4	30	
alpha-BHC [2C]	0.071	0.0049	mg/Kg wet	0.09891		71.6	40-140	10.0	30	
beta-BHC	0.062	0.0049	mg/Kg wet	0.09891		62.3	40-140	9.83	30	
beta-BHC [2C]	0.071	0.0049	mg/Kg wet	0.09891		71.7	40-140	9.02	30	
delta-BHC	0.056	0.0049	mg/Kg wet	0.09891		56.7	40-140	9.43	30	
delta-BHC [2C]	0.058	0.0049	mg/Kg wet	0.09891		58.7	40-140	9.55	30	
gamma-BHC (Lindane)	0.067	0.0020	mg/Kg wet	0.09891		68.0	40-140	10.5	30	
gamma-BHC (Lindane) [2C]	0.072	0.0020	mg/Kg wet	0.09891		72.8	40-140	9.62	30	
4,4'-DDD	0.072	0.0040	mg/Kg wet	0.09891		73.2	40-140	10.2	30	
4,4'-DDD [2C]	0.077	0.0040	mg/Kg wet	0.09891		77.4	40-140	10.7	30	
4,4'-DDE	0.072	0.0040	mg/Kg wet	0.09891		73.3	40-140	10.5	30	
4,4'-DDE [2C]	0.076	0.0040	mg/Kg wet	0.09891		76.8	40-140	10.9	30	
4,4'-DDT	0.067	0.0040	mg/Kg wet	0.09891		67.3	40-140	11.2	30	
4,4'-DDT [2C]	0.068	0.0040	mg/Kg wet	0.09891		68.5	40-140	11.9	30	
Dieldrin	0.071	0.0040	mg/Kg wet	0.09891		71.7	40-140	10.6	30	
Dieldrin [2C]	0.076	0.0040	mg/Kg wet	0.09891		77.2	40-140	10.5	30	
Endosulfan I	0.069	0.0049	mg/Kg wet	0.09891		69.4	40-140	10.2	30	
Endosulfan I [2C]	0.075	0.0049	mg/Kg wet	0.09891		75.6	40-140	9.48	30	
Endosulfan II	0.067	0.0079	mg/Kg wet	0.09891		67.8	40-140	10.6	30	
Endosulfan II [2C]	0.074	0.0079	mg/Kg wet	0.09891		74.6	40-140	10.9	30	
Endosulfan Sulfate	0.058	0.0079	mg/Kg wet	0.09891		58.8	40-140	10.4	30	
Endosulfan Sulfate [2C]	0.066	0.0079	mg/Kg wet	0.09891		67.1	40-140	10.6	30	
Endrin	0.074	0.0079	mg/Kg wet	0.09891		75.1	40-140	10.9	30	
Endrin [2C]	0.074	0.0079	mg/Kg wet	0.09891		75.0	40-140	11.4	30	
Endrin Aldehyde	0.059	0.0079	mg/Kg wet	0.09891		59.3	40-140	9.48	30	
Endrin Aldehyde [2C]	0.067	0.0079	mg/Kg wet	0.09891		67.5	40-140	10.2	30	
Endrin Ketone	0.068	0.0079	mg/Kg wet	0.09891		68.4	40-140	11.3	30	
Endrin Ketone [2C]	0.065	0.0079	mg/Kg wet	0.09891		65.8	40-140	12.6	30	
Heptachlor	0.072	0.0049	mg/Kg wet	0.09891		72.9	40-140	10.4	30	
Heptachlor [2C]	0.076	0.0049	mg/Kg wet	0.09891		77.1	40-140	10.2	30	
Heptachlor Epoxide	0.070	0.0049	mg/Kg wet	0.09891		71.3	40-140	10.4	30	
Heptachlor Epoxide [2C]	0.074	0.0049	mg/Kg wet	0.09891		75.2	40-140	10.4	30	
Methoxychlor	0.066	0.049	mg/Kg wet	0.09891		66.7	40-140	11.3	30	
Methoxychlor [2C]	0.070	0.049	mg/Kg wet	0.09891		70.6	40-140	11.0	30	
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg wet	0.1978		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.144*		mg/Kg wet	0.1978		72.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.131*		mg/Kg wet	0.1978		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.136*		mg/Kg wet	0.1978		68.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392205 - SW-846 3546										
Matrix Spike (B392205-MS1)	**Source: 24K0174-05**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aldrin	0.098	0.0057	mg/Kg dry	0.1147	ND	85.4	30-150			
Aldrin [2C]	0.11	0.0057	mg/Kg dry	0.1147	ND	92.6	30-150			
alpha-BHC	0.10	0.0057	mg/Kg dry	0.1147	ND	88.7	30-150			
alpha-BHC [2C]	0.11	0.0057	mg/Kg dry	0.1147	ND	95.2	30-150			
beta-BHC	0.098	0.0057	mg/Kg dry	0.1147	ND	85.6	30-150			
beta-BHC [2C]	0.10	0.0057	mg/Kg dry	0.1147	ND	91.4	30-150			
delta-BHC	0.084	0.0057	mg/Kg dry	0.1147	ND	73.6	30-150			
delta-BHC [2C]	0.086	0.0057	mg/Kg dry	0.1147	ND	75.3	30-150			
gamma-BHC (Lindane)	0.098	0.0023	mg/Kg dry	0.1147	ND	85.2	30-150			
gamma-BHC (Lindane) [2C]	0.10	0.0023	mg/Kg dry	0.1147	ND	90.2	30-150			
4,4'-DDD	0.11	0.0046	mg/Kg dry	0.1147	ND	94.6	30-150			
4,4'-DDD [2C]	0.12	0.0046	mg/Kg dry	0.1147	ND	100	30-150			
4,4'-DDE	0.11	0.0046	mg/Kg dry	0.1147	ND	92.6	30-150			
4,4'-DDE [2C]	0.11	0.0046	mg/Kg dry	0.1147	ND	98.2	30-150			
4,4'-DDT	0.10	0.0046	mg/Kg dry	0.1147	ND	88.2	30-150			
4,4'-DDT [2C]	0.11	0.0046	mg/Kg dry	0.1147	ND	98.6	30-150			
Dieldrin	0.10	0.0046	mg/Kg dry	0.1147	ND	89.9	30-150			
Dieldrin [2C]	0.11	0.0046	mg/Kg dry	0.1147	ND	96.6	30-150			
Endosulfan I	0.10	0.0057	mg/Kg dry	0.1147	ND	86.9	30-150			
Endosulfan I [2C]	0.11	0.0057	mg/Kg dry	0.1147	ND	95.5	30-150			
Endosulfan II	0.10	0.0092	mg/Kg dry	0.1147	ND	89.2	30-150			
Endosulfan II [2C]	0.11	0.0092	mg/Kg dry	0.1147	ND	96.6	30-150			
Endosulfan Sulfate	0.094	0.0092	mg/Kg dry	0.1147	ND	82.3	30-150			
Endosulfan Sulfate [2C]	0.10	0.0092	mg/Kg dry	0.1147	ND	91.5	30-150			
Endrin	0.11	0.0092	mg/Kg dry	0.1147	ND	94.0	30-150			
Endrin [2C]	0.11	0.0092	mg/Kg dry	0.1147	ND	99.6	30-150			
Endrin Aldehyde	0.081	0.0092	mg/Kg dry	0.1147	ND	70.4	30-150			
Endrin Aldehyde [2C]	0.092	0.0092	mg/Kg dry	0.1147	ND	79.9	30-150			
Endrin Ketone	0.10	0.0092	mg/Kg dry	0.1147	ND	89.3	30-150			
Endrin Ketone [2C]	0.10	0.0092	mg/Kg dry	0.1147	ND	90.4	30-150			
Heptachlor	0.10	0.0057	mg/Kg dry	0.1147	ND	90.1	30-150			
Heptachlor [2C]	0.11	0.0057	mg/Kg dry	0.1147	ND	95.7	30-150			
Heptachlor Epoxide	0.10	0.0057	mg/Kg dry	0.1147	ND	87.8	30-150			
Heptachlor Epoxide [2C]	0.11	0.0057	mg/Kg dry	0.1147	ND	93.0	30-150			
Methoxychlor	0.098	0.057	mg/Kg dry	0.1147	ND	85.4	30-150			
Methoxychlor [2C]	0.11	0.057	mg/Kg dry	0.1147	ND	94.0	30-150			
Surrogate: Decachlorobiphenyl	*0.224*		mg/Kg dry	0.2294		97.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg dry	0.2294		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.2294		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg dry	0.2294		83.5	30-150			
Matrix Spike Dup (B392205-MSD1)	**Source: 24K0174-05**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aldrin	0.093	0.0057	mg/Kg dry	0.1146	ND	81.1	30-150	5.20	30	
Aldrin [2C]	0.10	0.0057	mg/Kg dry	0.1146	ND	88.0	30-150	5.20	30	
alpha-BHC	0.097	0.0057	mg/Kg dry	0.1146	ND	84.7	30-150	4.69	30	
alpha-BHC [2C]	0.10	0.0057	mg/Kg dry	0.1146	ND	90.3	30-150	5.41	30	
beta-BHC	0.093	0.0057	mg/Kg dry	0.1146	ND	81.0	30-150	5.64	30	
beta-BHC [2C]	0.099	0.0057	mg/Kg dry	0.1146	ND	86.6	30-150	5.53	30	
delta-BHC	0.080	0.0057	mg/Kg dry	0.1146	ND	69.4	30-150	5.98	30	
delta-BHC [2C]	0.082	0.0057	mg/Kg dry	0.1146	ND	71.2	30-150	5.65	30	
gamma-BHC (Lindane)	0.093	0.0023	mg/Kg dry	0.1146	ND	81.0	30-150	5.24	30	
gamma-BHC (Lindane) [2C]	0.098	0.0023	mg/Kg dry	0.1146	ND	85.7	30-150	5.23	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392205 - SW-846 3546										
Matrix Spike Dup (B392205-MSD1)	**Source: 24K0174-05**			Prepared: 11/14/24 Analyzed: 11/19/24						
4,4'-DDD	0.10	0.0046	mg/Kg dry	0.1146	ND	88.8	30-150	6.34	30	
4,4'-DDD [2C]	0.11	0.0046	mg/Kg dry	0.1146	ND	94.2	30-150	6.33	30	
4,4'-DDE	0.10	0.0046	mg/Kg dry	0.1146	ND	87.6	30-150	5.69	30	
4,4'-DDE [2C]	0.11	0.0046	mg/Kg dry	0.1146	ND	92.7	30-150	5.87	30	
4,4'-DDT	0.095	0.0046	mg/Kg dry	0.1146	ND	83.3	30-150	5.85	30	
4,4'-DDT [2C]	0.10	0.0046	mg/Kg dry	0.1146	ND	90.6	30-150	8.60	30	
Dieldrin	0.098	0.0046	mg/Kg dry	0.1146	ND	85.3	30-150	5.38	30	
Dieldrin [2C]	0.10	0.0046	mg/Kg dry	0.1146	ND	91.3	30-150	5.72	30	
Endosulfan I	0.094	0.0057	mg/Kg dry	0.1146	ND	82.3	30-150	5.51	30	
Endosulfan I [2C]	0.10	0.0057	mg/Kg dry	0.1146	ND	90.6	30-150	5.40	30	
Endosulfan II	0.096	0.0092	mg/Kg dry	0.1146	ND	84.1	30-150	6.04	30	
Endosulfan II [2C]	0.10	0.0092	mg/Kg dry	0.1146	ND	91.2	30-150	5.81	30	
Endosulfan Sulfate	0.089	0.0092	mg/Kg dry	0.1146	ND	77.8	30-150	5.74	30	
Endosulfan Sulfate [2C]	0.099	0.0092	mg/Kg dry	0.1146	ND	86.8	30-150	5.40	30	
Endrin	0.10	0.0092	mg/Kg dry	0.1146	ND	89.0	30-150	5.65	30	
Endrin [2C]	0.11	0.0092	mg/Kg dry	0.1146	ND	94.0	30-150	5.85	30	
Endrin Aldehyde	0.074	0.0092	mg/Kg dry	0.1146	ND	64.1	30-150	9.33	30	
Endrin Aldehyde [2C]	0.087	0.0092	mg/Kg dry	0.1146	ND	76.3	30-150	4.66	30	
Endrin Ketone	0.097	0.0092	mg/Kg dry	0.1146	ND	84.5	30-150	5.56	30	
Endrin Ketone [2C]	0.098	0.0092	mg/Kg dry	0.1146	ND	85.3	30-150	5.88	30	
Heptachlor	0.098	0.0057	mg/Kg dry	0.1146	ND	85.8	30-150	5.05	30	
Heptachlor [2C]	0.10	0.0057	mg/Kg dry	0.1146	ND	90.9	30-150	5.29	30	
Heptachlor Epoxide	0.095	0.0057	mg/Kg dry	0.1146	ND	83.1	30-150	5.62	30	
Heptachlor Epoxide [2C]	0.10	0.0057	mg/Kg dry	0.1146	ND	88.2	30-150	5.35	30	
Methoxychlor	0.093	0.057	mg/Kg dry	0.1146	ND	80.9	30-150	5.53	30	
Methoxychlor [2C]	0.10	0.057	mg/Kg dry	0.1146	ND	89.2	30-150	5.31	30	
Surrogate: Decachlorobiphenyl	*0.207*		mg/Kg dry	0.2292		90.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg dry	0.2292		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.2292		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg dry	0.2292		80.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391690 - SW-846 3546										
Blank (B391690-BLK1)				Prepared: 11/07/24 Analyzed: 11/15/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.238*		mg/Kg wet	0.1988		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.237*		mg/Kg wet	0.1988		119	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.1988		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg wet	0.1988		91.2	30-150			
LCS (B391690-BS1)				Prepared: 11/07/24 Analyzed: 11/15/24						
Aroclor-1016	0.12	0.020	mg/Kg wet	0.1984		60.0	40-140			
Aroclor-1016 [2C]	0.12	0.020	mg/Kg wet	0.1984		60.2	40-140			
Aroclor-1260	0.13	0.020	mg/Kg wet	0.1984		65.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.1984		68.9	40-140			
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.1984		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg wet	0.1984		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.118*		mg/Kg wet	0.1984		59.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.134*		mg/Kg wet	0.1984		67.6	30-150			
LCS Dup (B391690-BSD1)				Prepared: 11/07/24 Analyzed: 11/15/24						
Aroclor-1016	0.11	0.020	mg/Kg wet	0.1982		55.9	40-140	7.01	30	
Aroclor-1016 [2C]	0.11	0.020	mg/Kg wet	0.1982		55.9	40-140	7.25	30	
Aroclor-1260	0.12	0.020	mg/Kg wet	0.1982		62.4	40-140	5.43	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.1982		65.2	40-140	5.57	30	
Surrogate: Decachlorobiphenyl	*0.139*		mg/Kg wet	0.1982		70.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.1982		71.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.114*		mg/Kg wet	0.1982		57.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.121*		mg/Kg wet	0.1982		61.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392206 - SW-846 3546										
Blank (B392206-BLK1)				Prepared: 11/14/24 Analyzed: 11/22/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.105*		mg/Kg wet	0.1972		53.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0980*		mg/Kg wet	0.1972		49.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.1972		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.1972		79.1	30-150			
LCS (B392206-BS1)				Prepared: 11/14/24 Analyzed: 11/22/24						
Aroclor-1016	0.13	0.020	mg/Kg wet	0.1974		65.2	40-140			
Aroclor-1016 [2C]	0.12	0.020	mg/Kg wet	0.1974		61.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.1974		75.7	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.1974		70.0	40-140			
Surrogate: Decachlorobiphenyl	*0.124*		mg/Kg wet	0.1974		62.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.116*		mg/Kg wet	0.1974		58.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.133*		mg/Kg wet	0.1974		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.133*		mg/Kg wet	0.1974		67.3	30-150			
LCS Dup (B392206-BSD1)				Prepared: 11/14/24 Analyzed: 11/22/24						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.1984		73.5	40-140	12.1	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.1984		69.4	40-140	12.8	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.1984		76.7	40-140	1.34	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.1984		70.6	40-140	0.826	30	
Surrogate: Decachlorobiphenyl	*0.102*		mg/Kg wet	0.1984		51.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0951*		mg/Kg wet	0.1984		47.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.153*		mg/Kg wet	0.1984		76.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.152*		mg/Kg wet	0.1984		76.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392206 - SW-846 3546										
Matrix Spike (B392206-MS2)	**Source: 24K0174-05RE1**			Prepared: 11/14/24 Analyzed: 11/22/24						
Aroclor-1016	0.20	0.089	mg/Kg dry	0.2213	ND	89.5	40-140			
Aroclor-1016 [2C]	0.18	0.089	mg/Kg dry	0.2213	ND	82.5	40-140			
Aroclor-1260	0.21	0.089	mg/Kg dry	0.2213	ND	97.0	40-140			
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.2213	ND	88.0	40-140			
Surrogate: Decachlorobiphenyl	*0.139*		mg/Kg dry	0.2213		62.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.126*		mg/Kg dry	0.2213		57.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg dry	0.2213		80.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg dry	0.2213		77.4	30-150			
Matrix Spike Dup (B392206-MSD2)	**Source: 24K0174-05RE1**			Prepared: 11/14/24 Analyzed: 11/22/24						
Aroclor-1016	0.20	0.089	mg/Kg dry	0.2213	ND	89.1	40-140	0.466	30	
Aroclor-1016 [2C]	0.19	0.089	mg/Kg dry	0.2213	ND	84.9	40-140	2.88	30	
Aroclor-1260	0.21	0.089	mg/Kg dry	0.2213	ND	96.6	40-140	0.438	30	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.2213	ND	87.9	40-140	0.173	30	
Surrogate: Decachlorobiphenyl	*0.140*		mg/Kg dry	0.2213		63.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.127*		mg/Kg dry	0.2213		57.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.2213		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.2213		81.1	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B										
Blank (B391603-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	ND	16	mg/Kg wet							
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.2	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.32	mg/Kg wet							
Calcium	ND	16	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
Cobalt	ND	1.6	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	16	mg/Kg wet							
Lead	ND	0.48	mg/Kg wet							
Magnesium	ND	16	mg/Kg wet							
Manganese	ND	0.32	mg/Kg wet							
Nickel	ND	0.64	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							
Zinc	ND	0.64	mg/Kg wet							
Blank (B391603-BLK2)				Prepared: 11/06/24 Analyzed: 11/11/24						
Potassium	ND	160	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							
LCS (B391603-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	5230	50	mg/Kg wet	5940		88.1	46.1-153.9			
Antimony	92.5	5.0	mg/Kg wet	121.0		76.4	2.1-200.8			
Arsenic	224	9.9	mg/Kg wet	242.0		92.7	81.8-118.6			
Barium	296	5.0	mg/Kg wet	295.0		100	81.7-118.3			
Beryllium	159	0.50	mg/Kg wet	160.0		99.5	82.5-117.5			
Cadmium	82.7	0.99	mg/Kg wet	84.30		98.1	82.2-117.8			
Calcium	5170	50	mg/Kg wet	5270		98.1	82.5-117.5			
Chromium	215	2.0	mg/Kg wet	213.0		101	81.2-119.2			
Cobalt	135	5.0	mg/Kg wet	137.0		98.2	83.2-117.5			
Copper	207	4.0	mg/Kg wet	195.0		106	83.1-116.9			
Iron	6790	50	mg/Kg wet	6650		102	58.6-141.5			
Lead	190	1.5	mg/Kg wet	194.0		97.7	82-118.6			
Magnesium	1730	50	mg/Kg wet	1860		93.0	75.3-124.2			
Manganese	287	0.99	mg/Kg wet	264.0		109	80.7-118.9			
Nickel	293	2.0	mg/Kg wet	298.0		98.3	82.2-117.8			
Selenium	258	9.9	mg/Kg wet	272.0		94.7	80.1-119.5			
Sodium	402	500	mg/Kg wet	406.0		99.0	74.9-124.9			J
Thallium	107	5.0	mg/Kg wet	108.0		99.3	80-119.4			
Vanadium	177	2.0	mg/Kg wet	169.0		105	78.1-122.5			
Zinc	225	2.0	mg/Kg wet	236.0		95.3	80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B											
LCS (B391603-BS2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	1990	500	mg/Kg wet	2010		99.2		70.6-129.4			
Silver	76.8	0.99	mg/Kg wet	76.70		100		79.5-120.5			
LCS Dup (B391603-BSD1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5220	50	mg/Kg wet	5940		88.0		46.1-153.9	0.130	30	
Antimony	97.7	5.0	mg/Kg wet	121.0		80.7		2.1-200.8	5.48	30	
Arsenic	231	9.9	mg/Kg wet	242.0		95.4		81.8-118.6	2.80	30	
Barium	326	5.0	mg/Kg wet	295.0		110		81.7-118.3	9.54	20	
Beryllium	161	0.50	mg/Kg wet	160.0		101		82.5-117.5	1.16	30	
Cadmium	85.0	0.99	mg/Kg wet	84.30		101		82.2-117.8	2.77	20	
Calcium	5300	50	mg/Kg wet	5270		101		82.5-117.5	2.46	30	
Chromium	224	2.0	mg/Kg wet	213.0		105		81.2-119.2	4.41	30	
Cobalt	138	5.0	mg/Kg wet	137.0		101		83.2-117.5	2.46	20	
Copper	210	4.0	mg/Kg wet	195.0		108		83.1-116.9	1.66	30	
Iron	6210	50	mg/Kg wet	6650		93.3		58.6-141.5	8.96	30	
Lead	191	1.5	mg/Kg wet	194.0		98.5		82-118.6	0.813	30	
Magnesium	1730	50	mg/Kg wet	1860		92.7		75.3-124.2	0.279	30	
Manganese	341	0.99	mg/Kg wet	264.0		**129**	*	80.7-118.9	17.1	30	L-07
Nickel	299	2.0	mg/Kg wet	298.0		100		82.2-117.8	2.15	30	
Selenium	262	9.9	mg/Kg wet	272.0		96.4		80.1-119.5	1.80	30	
Sodium	402	500	mg/Kg wet	406.0		99.0		74.9-124.9	0.0471	30	J
Thallium	110	5.0	mg/Kg wet	108.0		102		80-119.4	2.82	30	
Vanadium	181	2.0	mg/Kg wet	169.0		107		78.1-122.5	2.15	30	
Zinc	229	2.0	mg/Kg wet	236.0		97.1		80.1-120.3	1.83	30	
LCS Dup (B391603-BSD2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	1960	500	mg/Kg wet	2010		97.6		70.6-129.4	1.64	30	
Silver	74.9	0.99	mg/Kg wet	76.70		97.7		79.5-120.5	2.49	30	
Matrix Spike (B391603-MS1)	**Source: 24K0174-05**			Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	2650	18	mg/Kg dry	18.17	2830	**-973**	*	75-125			MS-19
Antimony	12.1	1.8	mg/Kg dry	18.17	ND	**66.3**	*	75-125			MS-07A
Arsenic	18.6	3.6	mg/Kg dry	18.17	2.52	88.4		75-125			
Barium	41.8	1.8	mg/Kg dry	18.17	28.8	**71.8**	*	75-125			MS-22
Beryllium	18.5	0.18	mg/Kg dry	18.17	0.194	100		75-125			
Cadmium	17.7	0.36	mg/Kg dry	18.17	ND	97.3		75-125			
Calcium	5910	18	mg/Kg dry	145.4	6250	**-236**	*	75-125			MS-19
Chromium	22.4	0.73	mg/Kg dry	18.17	5.34	94.0		75-125			
Cobalt	19.5	1.8	mg/Kg dry	18.17	2.83	91.9		75-125			
Copper	46.3	1.5	mg/Kg dry	36.35	8.28	105		75-125			
Iron	5720	18	mg/Kg dry	145.4	6610	**-615**	*	75-125			MS-19
Lead	19.9	0.55	mg/Kg dry	18.17	3.33	91.4		75-125			
Magnesium	2300	18	mg/Kg dry	145.4	2480	**-125**	*	75-125			MS-19
Manganese	201	0.36	mg/Kg dry	18.17	191	**55.7**	*	75-125			MS-19
Nickel	24.0	0.73	mg/Kg dry	18.17	7.60	90.3		75-125			
Selenium	17.3	3.6	mg/Kg dry	18.17	ND	95.5		75-125			
Sodium	241	180	mg/Kg dry	145.4	106	92.5		75-125			
Thallium	19.1	1.8	mg/Kg dry	18.17	ND	105		75-125			
Vanadium	25.0	0.73	mg/Kg dry	18.17	8.38	91.6		75-125			
Zinc	47.4	0.73	mg/Kg dry	36.35	14.6	90.1		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B											
Matrix Spike (B391603-MS2)	**Source: 24K0174-05**			Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	568	180	mg/Kg dry	145.4	497	**48.7**	*	75-125			MS-07A
Silver	17.8	0.36	mg/Kg dry	18.17	ND	98.2		75-125			
Matrix Spike Dup (B391603-MSD1)	**Source: 24K0174-05**			Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	2850	19	mg/Kg dry	19.15	2830	116		75-125	7.25	35	
Antimony	12.7	1.9	mg/Kg dry	19.15	ND	**66.1**	*	75-125	4.91	35	MS-07A
Arsenic	19.9	3.8	mg/Kg dry	19.15	2.52	90.9		75-125	6.92	35	
Barium	47.5	1.9	mg/Kg dry	19.15	28.8	97.8		75-125	12.7	35	
Beryllium	19.6	0.19	mg/Kg dry	19.15	0.194	101		75-125	5.79	35	
Cadmium	19.1	0.38	mg/Kg dry	19.15	ND	99.7		75-125	7.70	35	
Calcium	5020	19	mg/Kg dry	153.2	6250	**-799**	*	75-125	16.1	35	MS-19
Chromium	24.7	0.77	mg/Kg dry	19.15	5.34	101		75-125	9.46	35	
Cobalt	21.3	1.9	mg/Kg dry	19.15	2.83	96.3		75-125	8.44	35	
Copper	49.5	1.5	mg/Kg dry	38.29	8.28	108		75-125	6.56	35	
Iron	6070	19	mg/Kg dry	153.2	6610	**-355**	*	75-125	5.95	35	MS-19
Lead	21.4	0.57	mg/Kg dry	19.15	3.33	94.6		75-125	7.26	35	
Magnesium	2310	19	mg/Kg dry	153.2	2480	**-111**	*	75-125	0.470	35	MS-19
Manganese	205	0.38	mg/Kg dry	19.15	191	**73.5**	*	75-125	1.94	35	MS-19
Nickel	25.6	0.77	mg/Kg dry	19.15	7.60	94.1		75-125	6.48	35	
Selenium	19.1	3.8	mg/Kg dry	19.15	ND	99.7		75-125	9.54	35	
Sodium	263	190	mg/Kg dry	153.2	106	103		75-125	9.00	35	
Thallium	20.5	1.9	mg/Kg dry	19.15	ND	107		75-125	6.80	35	
Vanadium	26.9	0.77	mg/Kg dry	19.15	8.38	96.8		75-125	7.23	35	
Zinc	51.0	0.77	mg/Kg dry	38.29	14.6	95.0		75-125	7.34	35	
Matrix Spike Dup (B391603-MSD2)	**Source: 24K0174-05**			Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	598	190	mg/Kg dry	153.2	497	**65.6**	*	75-125	5.09	35	MS-07A
Silver	18.7	0.38	mg/Kg dry	19.15	ND	97.7		75-125	4.77	35	
Post Spike (B391603-PS1)	**Source: 24K0174-05**			Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	77.6		mg/L	2.000	75.6	102		75-125			
Antimony	1.95		mg/L	2.000	-0.00238	97.4		75-125			
Arsenic	1.89		mg/L	2.000	0.0674	91.2		75-125			
Barium	2.71		mg/L	2.000	0.770	97.1		75-125			
Beryllium	2.01		mg/L	2.000	0.00520	100		75-125			
Cadmium	1.91		mg/L	2.000	0.000256	95.4		75-125			
Calcium	183		mg/L	16.00	167	98.8		75-125			
Chromium	2.10		mg/L	2.000	0.143	97.9		75-125			
Cobalt	1.93		mg/L	2.000	0.0758	92.9		75-125			
Copper	4.42		mg/L	4.000	0.221	105		75-125			
Iron	191		mg/L	16.00	177	88.1		75-125			
Lead	1.91		mg/L	2.000	0.0892	91.0		75-125			
Magnesium	81.5		mg/L	16.00	66.5	94.2		75-125			
Manganese	6.95		mg/L	2.000	5.11	91.8		75-125			
Nickel	2.08		mg/L	2.000	0.203	93.8		75-125			
Selenium	1.88		mg/L	2.000	0.00	94.0		75-125			
Sodium	19.4		mg/L	16.00	2.84	104		75-125			
Thallium	1.97		mg/L	2.000	0.00	98.7		75-125			
Vanadium	2.26		mg/L	2.000	0.224	102		75-125			
Zinc	4.03		mg/L	4.000	0.391	91.1		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B										
Dilution Check (B391603-SRL1)		**Source: 24K0174-05**		Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	2870	93	mg/Kg dry		2830			1.54	20	
Antimony	ND	9.3	mg/Kg dry		ND				20	
Arsenic	2.97	19	mg/Kg dry		ND			16.5	20	J
Barium	29.5	9.3	mg/Kg dry		28.8			2.50	20	
Beryllium	ND	0.93	mg/Kg dry		ND				20	
Cadmium	ND	1.9	mg/Kg dry		ND				20	
Calcium	6460	93	mg/Kg dry		6250			3.29	20	
Chromium	5.59	3.7	mg/Kg dry		5.34			4.53	20	
Cobalt	3.09	9.3	mg/Kg dry		2.83			8.61	20	J
Copper	8.89	7.5	mg/Kg dry		8.28			7.09	20	
Iron	7040	93	mg/Kg dry		6610			6.22	20	
Lead	3.80	2.8	mg/Kg dry		3.33			13.0	20	
Magnesium	2580	93	mg/Kg dry		2480			3.68	20	
Manganese	199	1.9	mg/Kg dry		191			3.90	20	
Nickel	8.65	3.7	mg/Kg dry		7.60			13.0	20	
Selenium	ND	19	mg/Kg dry		ND				20	
Sodium	ND	930	mg/Kg dry		ND				20	
Thallium	ND	9.3	mg/Kg dry		ND				20	
Vanadium	8.29	3.7	mg/Kg dry		8.38			1.14	20	
Zinc	16.0	3.7	mg/Kg dry		14.6			9.12	20	
Batch B393099 - SW-846 7471										
Blank (B393099-BLK1)				Prepared & Analyzed: 11/25/24						
Mercury	ND	0.024	mg/Kg wet							
LCS (B393099-BS1)				Prepared & Analyzed: 11/25/24						
Mercury	22.6	1.8	mg/Kg wet	22.80		99.1	70.6-129.4			
LCS Dup (B393099-BSD1)				Prepared & Analyzed: 11/25/24						
Mercury	24.5	1.7	mg/Kg wet	22.80		107	70.6-129.4	8.11	20	
Matrix Spike (B393099-MS1)		**Source: 24K0174-05**		Prepared & Analyzed: 11/25/24						
Mercury	0.382	0.027	mg/Kg dry	0.3598	ND	106	80-120			
Matrix Spike Dup (B393099-MSD1)		**Source: 24K0174-05**		Prepared & Analyzed: 11/25/24						
Mercury	0.361	0.026	mg/Kg dry	0.3454	ND	105	80-120	5.61	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391677 - % Solids										
Duplicate (B391677-DUP3)	**Source: 24K0174-05**			Prepared & Analyzed: 11/07/24						
% Solids	83.3		% Wt		86.3			3.56	10	
Batch B391995 - SW-846 9010C										
Blank (B391995-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	ND	0.50	mg/Kg wet							
LCS (B391995-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	100	4.9	mg/Kg wet	83.86		124	30.6-170			
LCS Dup (B391995-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	110	4.8	mg/Kg wet	83.56		126	30.6-170	0.862	30	
Matrix Spike (B391995-MS1)	**Source: 24K0174-01**			Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	16	0.51	mg/Kg dry	15.38	ND	107	75-125			
Matrix Spike Dup (B391995-MSD1)	**Source: 24K0174-01**			Prepared: 11/12/24 Analyzed: 11/13/24						
Cyanide	16	0.50	mg/Kg dry	15.12	ND	109	75-125	0.262	30	
Batch B392094 - SW-846 9010C										
Blank (B392094-BLK1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B392094-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Cyanide	85	4.9	mg/Kg wet	85.18		99.8	30.6-170			
LCS Dup (B392094-BSD1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Cyanide	110	5.0	mg/Kg wet	85.42		129	30.6-170	26.1	30	
Matrix Spike (B392094-MS1)	**Source: 24K0174-05**			Prepared: 11/13/24 Analyzed: 11/14/24						
Cyanide	15	0.57	mg/Kg dry	17.23	ND	86.1	75-125			
Matrix Spike Dup (B392094-MSD1)	**Source: 24K0174-05**			Prepared: 11/13/24 Analyzed: 11/14/24						
Cyanide	16	0.56	mg/Kg dry	16.66	ND	94.5	75-125	5.95	30	
Batch B392211 - SW-846 9010C										
Blank (B392211-BLK1)				Prepared & Analyzed: 11/14/24						
Cyanide	ND	0.49	mg/Kg wet							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392211 - SW-846 9010C										
LCS (B392211-BS1)				Prepared & Analyzed: 11/14/24						
Cyanide	110	5.0	mg/Kg wet	85.64		128	30.6-170			
LCS Dup (B392211-BSD1)				Prepared & Analyzed: 11/14/24						
Cyanide	110	4.7	mg/Kg wet	80.37		132	30.6-170	3.56	30	
Matrix Spike (B392211-MS1)		**Source: 24K0174-09**		Prepared & Analyzed: 11/14/24						
Cyanide	14	0.53	mg/Kg dry	15.76	ND	86.3	75-125			
Matrix Spike Dup (B392211-MSD1)		**Source: 24K0174-09**		Prepared & Analyzed: 11/14/24						
Cyanide	15	0.55	mg/Kg dry	16.63	ND	91.6	75-125	11.3	30	

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BREAKDOWN REPORT

Lab Sample ID:	S114162-PEM1	Analyzed:	11/18/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.94
Endrin [1]	2.28

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.34
Endrin [2]	2.35

BREAKDOWN REPORT

Lab Sample ID:	S114162-PEM2	Analyzed:	11/18/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.72
Endrin [1]	8.86

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.43
Endrin [2]	9.43

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391690-BS1 Date(s) Analyzed: 11/15/2024 11/15/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.14	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391690-BSD1 Date(s) Analyzed: 11/15/2024 11/15/2024

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.11	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.13	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392205-BS1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.398	5.369	5.429	0.080	
	2	5.352	5.321	5.381	0.085	6.1
4,4'-DDE	1	4.912	4.882	4.942	0.081	
	2	4.886	4.856	4.916	0.085	4.8
4,4'-DDT	1	5.628	5.599	5.659	0.074	
	2	5.607	5.576	5.636	0.076	2.7
Aldrin	1	4.148	4.118	4.178	0.076	
	2	4.020	3.990	4.050	0.082	7.6
alpha-BHC	1	3.265	3.235	3.295	0.079	
	2	3.152	3.121	3.181	0.078	1.3
alpha-Chlordane	1	4.848	4.818	4.878	0.076	
	2	4.741	4.711	4.771	0.081	6.4
beta-BHC	1	3.589	3.558	3.618	0.068	
	2	3.495	3.464	3.524	0.078	13.7
delta-BHC	1	3.732	3.701	3.761	0.062	
	2	3.721	3.691	3.751	0.064	3.2
Dieldrin	1	5.155	5.124	5.184	0.079	
	2	5.003	4.972	5.032	0.085	7.3
Endosulfan I	1	4.959	4.929	4.989	0.076	
	2	4.783	4.752	4.812	0.082	7.6
Endosulfan II	1	5.526	5.496	5.556	0.075	
	2	5.418	5.387	5.447	0.082	8.9
Endosulfan Sulfate	1	6.196	6.166	6.226	0.065	
	2	5.918	5.888	5.948	0.074	12.9
Endrin	1	5.344	5.314	5.374	0.083	
	2	5.245	5.214	5.274	0.083	0.0
Endrin Aldehyde	1	5.870	5.841	5.901	0.064	
	2	5.693	5.663	5.723	0.074	12.9
Endrin Ketone	1	6.386	6.356	6.416	0.076	
	2	6.292	6.261	6.321	0.074	2.7
gamma-BHC (Lindane)	1	3.520	3.490	3.550	0.075	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392205-BS1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.397	3.457	0.079	5.2
gamma-Chlordane	1	4.739	4.709	4.769	0.081	
	2	4.624	4.594	4.654	0.081	0.0
Heptachlor	1	3.904	3.875	3.935	0.080	
	2	3.769	3.739	3.799	0.084	4.9
Heptachlor Epoxide	1	4.639	4.609	4.669	0.078	
	2	4.473	4.443	4.503	0.083	6.2
Methoxychlor	1	6.017	5.987	6.047	0.074	
	2	6.145	6.115	6.175	0.078	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392205-BSD1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.398	5.369	5.429	0.072	
	2	5.351	5.321	5.381	0.077	6.7
4,4'-DDE	1	4.912	4.882	4.942	0.072	
	2	4.886	4.856	4.916	0.076	4.0
4,4'-DDT	1	5.628	5.599	5.659	0.067	
	2	5.606	5.576	5.636	0.068	1.5
Aldrin	1	4.148	4.118	4.178	0.069	
	2	4.020	3.990	4.050	0.074	7.0
alpha-BHC	1	3.265	3.235	3.295	0.072	
	2	3.152	3.121	3.181	0.071	1.4
alpha-Chlordane	1	4.848	4.818	4.878	0.068	
	2	4.741	4.711	4.771	0.073	7.1
beta-BHC	1	3.589	3.558	3.618	0.062	
	2	3.495	3.464	3.524	0.071	13.5
delta-BHC	1	3.731	3.701	3.761	0.056	
	2	3.722	3.691	3.751	0.058	3.5
Dieldrin	1	5.154	5.124	5.184	0.071	
	2	5.002	4.972	5.032	0.076	6.8
Endosulfan I	1	4.958	4.929	4.989	0.069	
	2	4.783	4.752	4.812	0.075	8.3
Endosulfan II	1	5.526	5.496	5.556	0.067	
	2	5.417	5.387	5.447	0.074	9.9
Endosulfan Sulfate	1	6.195	6.166	6.226	0.058	
	2	5.917	5.888	5.948	0.066	12.9
Endrin	1	5.344	5.314	5.374	0.074	
	2	5.244	5.214	5.274	0.074	0.0
Endrin Aldehyde	1	5.869	5.841	5.901	0.059	
	2	5.693	5.663	5.723	0.067	12.7
Endrin Ketone	1	6.385	6.356	6.416	0.068	
	2	6.291	6.261	6.321	0.065	4.5
gamma-BHC (Lindane)	1	3.520	3.490	3.550	0.067	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392205-BSD1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.397	3.457	0.072	7.2
gamma-Chlordane	1	4.739	4.709	4.769	0.073	
	2	4.625	4.594	4.654	0.073	0.0
Heptachlor	1	3.904	3.875	3.935	0.072	
	2	3.769	3.739	3.799	0.076	5.4
Heptachlor Epoxide	1	4.639	4.609	4.669	0.070	
	2	4.474	4.443	4.503	0.074	4.1
Methoxychlor	1	6.016	5.987	6.047	0.066	
	2	6.144	6.115	6.175	0.070	5.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392205-MS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.396	5.367	5.427	0.11	
	2	5.351	5.322	5.382	0.12	8.7
4,4'-DDE	1	4.910	4.881	4.941	0.11	
	2	4.885	4.856	4.916	0.11	0.0
4,4'-DDT	1	5.626	5.598	5.658	0.10	
	2	5.606	5.576	5.636	0.11	9.5
Aldrin	1	4.146	4.117	4.177	0.098	
	2	4.020	3.990	4.050	0.11	11.5
alpha-BHC	1	3.263	3.234	3.294	0.10	
	2	3.152	3.122	3.182	0.11	9.5
beta-BHC	1	3.587	3.557	3.617	0.098	
	2	3.495	3.465	3.525	0.10	2.0
delta-BHC	1	3.729	3.700	3.760	0.084	
	2	3.722	3.692	3.752	0.086	1.2
Dieldrin	1	5.152	5.123	5.183	0.10	
	2	5.002	4.972	5.032	0.11	9.5
Endosulfan I	1	4.957	4.928	4.988	0.10	
	2	4.782	4.752	4.812	0.11	9.5
Endosulfan II	1	5.524	5.495	5.555	0.10	
	2	5.417	5.387	5.447	0.11	9.5
Endosulfan Sulfate	1	6.194	6.165	6.225	0.094	
	2	5.917	5.887	5.947	0.10	6.2
Endrin	1	5.342	5.313	5.373	0.11	
	2	5.244	5.214	5.274	0.11	0.0
Endrin Aldehyde	1	5.868	5.839	5.899	0.081	
	2	5.693	5.663	5.723	0.092	12.7
Endrin Ketone	1	6.384	6.355	6.415	0.10	
	2	6.291	6.261	6.321	0.10	0.0
gamma-BHC (Lindane)	1	3.519	3.489	3.549	0.098	
	2	3.427	3.397	3.457	0.10	2.0
Heptachlor	1	3.903	3.873	3.933	0.10	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392205-MS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.769	3.739	3.799	0.11	9.5
Heptachlor Epoxide	1	4.637	4.608	4.668	0.10	
	2	4.473	4.443	4.503	0.11	9.5
Methoxychlor	1	6.015	5.986	6.046	0.098	
	2	6.144	6.115	6.175	0.11	11.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392205-MSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.396	5.367	5.427	0.10	
	2	5.350	5.322	5.382	0.11	9.5
4,4'-DDE	1	4.909	4.881	4.941	0.10	
	2	4.885	4.856	4.916	0.11	9.5
4,4'-DDT	1	5.626	5.598	5.658	0.095	
	2	5.605	5.576	5.636	0.10	5.1
Aldrin	1	4.145	4.117	4.177	0.093	
	2	4.020	3.990	4.050	0.10	7.3
alpha-BHC	1	3.263	3.234	3.294	0.097	
	2	3.152	3.122	3.182	0.10	3.1
beta-BHC	1	3.587	3.557	3.617	0.093	
	2	3.495	3.465	3.525	0.099	6.3
delta-BHC	1	3.729	3.700	3.760	0.080	
	2	3.721	3.692	3.752	0.082	2.5
Dieldrin	1	5.152	5.123	5.183	0.098	
	2	5.001	4.972	5.032	0.10	2.0
Endosulfan I	1	4.956	4.928	4.988	0.094	
	2	4.782	4.752	4.812	0.10	6.2
Endosulfan II	1	5.524	5.495	5.555	0.096	
	2	5.416	5.387	5.447	0.10	4.1
Endosulfan Sulfate	1	6.193	6.165	6.225	0.089	
	2	5.916	5.887	5.947	0.099	10.6
Endrin	1	5.342	5.313	5.373	0.10	
	2	5.244	5.214	5.274	0.11	9.5
Endrin Aldehyde	1	5.867	5.839	5.899	0.074	
	2	5.692	5.663	5.723	0.087	16.1
Endrin Ketone	1	6.383	6.355	6.415	0.097	
	2	6.291	6.261	6.321	0.098	1.0
gamma-BHC (Lindane)	1	3.519	3.489	3.549	0.093	
	2	3.427	3.397	3.457	0.098	5.2
Heptachlor	1	3.903	3.873	3.933	0.098	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392205-MSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.769	3.739	3.799	0.10	2.0
Heptachlor Epoxide	1	4.636	4.608	4.668	0.095	
	2	4.472	4.443	4.503	0.10	5.1
Methoxychlor	1	6.015	5.986	6.046	0.093	
	2	6.144	6.115	6.175	0.10	7.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B392206-BS1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.12	8.0
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B392206-BSD1 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.14	6.9
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B392206-MS2 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.18	10.5
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.19	14.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B392206-MSD2 Date(s) Analyzed: 11/22/2024 11/22/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.19	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.19	10.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Soil	
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260D in Water	
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270E in Soil	
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

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CHAIN OF CUSTODY RECORD (New York)

24K0174

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: WSP USA / ENE
Consultant Address: 40 La Riviere Dr., Buffalo, NY
Consultant Phone: (732) 979-7572
Callout Project Name: Court & Luquer
Project Location: Carroll Gardens, Brooklyn, NY
Callout Number: C100913
Site/Spill Number: 224414
Project Manager: G. Mayer
Pace Analytical Quote Name/Number:
Invoice Recipient: G. Mayer
Sampled By: CP

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Charlie.Porrera@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
1	CLMW-05-Z11-12	10/31	1200		X	S	
2	CLMW-05-Z24-25		1220		X		
3	CLMW-05-Z34-35		1230		X		
4 **	CLMW-05-Z34-35Q		1235		X		
5 *	CLMW-05-Z44-45	↓	1250		X		
6	CLMW-02-Z17-18	11/1	1430		X		
7	CLMW-02-Z28-29		1510		X		
8	CLMW-02-Z34-35		1540		X		
9	CLMW-02-Z45-46	↓	1600		X	↓	
10	TB-241101	11/1				W	

	1	2	3	4	5	6	7	8	9	10	11
# of Containers	3	1	1	1	1	1	1	1			
[2] Preservation Code											
[3] Container Code											

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

1	2	3	4	5	6	7	8	9	10	11
8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Mercury 7471B	Cyanide 9010 B			

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Plus MS/MSD
** Duplicate sample

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Relinquished by: (signature)	Date/Time:
	(E+E/WSP)	11/1/24, 1800
	Received by: (signature) WiFi Pace	11/1/24 1800
	Relinquished by: (signature) WiFi Pace	11/1/24 2030
	Received by: (signature) Anthony Green	NOV 01 2024 2045
	Relinquished by: (signature) Anthony Green	11/2/24 0045
	Received by: (signature)	11/2/24 0045

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

PACE 11/2/24 02:37

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Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log in Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client WSP

Project Court & Luquer

MCP/RCP Required Nd

Deliverable Package Requirement CAT B

Location NY

PWSID# (When Applicable) NO

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time GR 11/21/24 737

Back-Sheet By / Date / Time GR 11/21/24 1200

Temperature Method GUN # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 3.2

Rush Samples: Yes / No Notify _____

Short Hold: Yes / No Notify _____

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☐ Collection Date/Time ☑

All Samples Proper pH: N/A ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars	—	—	—	—	2	—	—	—	—											
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH			1	1	1	1	2	1	1	1	1	1										
D.I. Water																						
BiSulfate			2	2	2	2	4	2	2	2	2	2										
Col/Bact		Other / Fill in																				
125 plastic			1	1	1	1	2	1	1	1	1											
other			1	1	1	1	2	1	1	1	1											

Qualtrax ID: 120836

ANALYTICAL REPORT

Lab Number:	L2464836
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24K0174
Project Number:	24K0174
Report Date:	11/20/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2464836-01	CLMW-05-Z11-12	SOIL	Not Specified	10/31/24 12:00	11/06/24
L2464836-02	CLMW-05-Z24-25	SOIL	Not Specified	10/31/24 12:20	11/06/24
L2464836-03	CLMW-05-Z34-35	SOIL	Not Specified	10/31/24 12:30	11/06/24
L2464836-04	CLMW-05-Z34-35Q	SOIL	Not Specified	10/31/24 12:35	11/06/24
L2464836-05	CLMW-05-Z44-45	SOIL	Not Specified	10/31/24 12:50	11/06/24
L2464836-06	CLMW-02-Z17-18	SOIL	Not Specified	11/01/24 14:30	11/06/24
L2464836-07	CLMW-02-Z28-29	SOIL	Not Specified	11/01/24 15:10	11/06/24
L2464836-08	CLMW-02-Z34-35	SOIL	Not Specified	11/01/24 15:40	11/06/24
L2464836-09	CLMW-02-Z45-46	SOIL	Not Specified	11/01/24 16:00	11/06/24

Project Name:	24K0174	**Lab Number:**	L2464836
Project Number:	24K0174	**Report Date:**	11/20/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 24K0174 **Lab Number:** L2464836
Project Number: 24K0174 **Report Date:** 11/20/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/20/24

ORGANICS

PESTICIDES

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-01
Client ID: CLMW-05-Z11-12
Sample Location: Not Specified

Date Collected: 10/31/24 12:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 20:04
Analyst: AKM
Percent Solids: 94%
Methylation Date: 11/13/24 22:09

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3500	1100	1	A
MCPA	ND		ug/kg	3500	990.	1	A
Dalapon	ND		ug/kg	35.0	11.4	1	A
Dicamba	ND		ug/kg	35.0	5.88	1	A
Dichloroprop	ND		ug/kg	35.0	10.0	1	A
2,4-D	ND		ug/kg	175	11.0	1	A
2,4-DB	ND		ug/kg	175	8.99	1	A
2,4,5-T	ND		ug/kg	175	5.42	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	4.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	74		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-02
Client ID: CLMW-05-Z24-25
Sample Location: Not Specified

Date Collected: 10/31/24 12:20
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 20:22
Analyst: AKM
Percent Solids: 92%
Methylation Date: 11/13/24 22:09

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3590	1130	1	A
MCPA	ND		ug/kg	3590	1020	1	A
Dalapon	ND		ug/kg	35.9	11.7	1	A
Dicamba	ND		ug/kg	35.9	6.04	1	A
Dichloroprop	ND		ug/kg	35.9	10.3	1	A
2,4-D	ND		ug/kg	180	11.3	1	A
2,4-DB	ND		ug/kg	180	9.23	1	A
2,4,5-T	ND		ug/kg	180	5.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	81		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-03
Client ID: CLMW-05-Z34-35
Sample Location: Not Specified

Date Collected: 10/31/24 12:30
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 20:41
Analyst: AKM
Percent Solids: 89%
Methylation Date: 11/13/24 22:09

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3650	1150	1	A
MCPA	ND		ug/kg	3650	1030	1	A
Dalapon	ND		ug/kg	36.5	11.9	1	A
Dicamba	ND		ug/kg	36.5	6.13	1	A
Dichloroprop	ND		ug/kg	36.5	10.5	1	A
2,4-D	ND		ug/kg	182	11.5	1	A
2,4-DB	ND		ug/kg	182	9.38	1	A
2,4,5-T	ND		ug/kg	182	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	77		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-04
Client ID: CLMW-05-Z34-35Q
Sample Location: Not Specified

Date Collected: 10/31/24 12:35
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 20:59
Analyst: AKM
Percent Solids: 90%
Methylation Date: 11/13/24 22:09

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3600	1130	1	A
MCPA	ND		ug/kg	3600	1020	1	A
Dalapon	ND		ug/kg	36.0	11.8	1	A
Dicamba	ND		ug/kg	36.0	6.05	1	A
Dichloroprop	ND		ug/kg	36.0	10.3	1	A
2,4-D	ND		ug/kg	180	11.3	1	A
2,4-DB	ND		ug/kg	180	9.26	1	A
2,4,5-T	ND		ug/kg	180	5.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	79		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-05
Client ID: CLMW-05-Z44-45
Sample Location: Not Specified

Date Collected: 10/31/24 12:50
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/14/24 21:17
Analyst: AKM
Percent Solids: 82%
Methylation Date: 11/13/24 22:09

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3980	1250	1	A
MCPA	ND		ug/kg	3980	1130	1	A
Dalapon	ND		ug/kg	39.8	13.0	1	A
Dicamba	ND		ug/kg	39.8	6.69	1	A
Dichloroprop	ND		ug/kg	39.8	11.4	1	A
2,4-D	ND		ug/kg	199	12.5	1	A
2,4-DB	ND		ug/kg	199	10.2	1	A
2,4,5-T	ND		ug/kg	199	6.17	1	A
2,4,5-TP (Silvex)	ND		ug/kg	199	5.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	81		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-06
Client ID: CLMW-02-Z17-18
Sample Location: Not Specified

Date Collected: 11/01/24 14:30
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 02:07
Analyst: JAG
Percent Solids: 89%
Methylation Date: 11/15/24 17:50

Extraction Method: EPA 8151A
Extraction Date: 11/14/24 19:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3710	1170	1	A
MCPA	ND		ug/kg	3710	1050	1	A
Dalapon	ND		ug/kg	37.1	12.1	1	A
Dicamba	ND		ug/kg	37.1	6.24	1	A
Dichloroprop	ND		ug/kg	37.1	10.7	1	A
2,4-D	ND		ug/kg	186	11.7	1	A
2,4-DB	ND		ug/kg	186	9.55	1	A
2,4,5-T	ND		ug/kg	186	5.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	69		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-07
Client ID: CLMW-02-Z28-29
Sample Location: Not Specified

Date Collected: 11/01/24 15:10
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 02:25
Analyst: JAG
Percent Solids: 8%
Methylation Date: 11/15/24 17:50

Extraction Method: EPA 8151A
Extraction Date: 11/14/24 19:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	40800	12800	1	A
MCPA	ND		ug/kg	40800	11500	1	A
Dalapon	ND		ug/kg	408	133.	1	A
Dicamba	ND		ug/kg	408	68.5	1	A
Dichloroprop	ND		ug/kg	408	117.	1	A
2,4-D	ND		ug/kg	2040	128.	1	A
2,4-DB	ND		ug/kg	2040	105.	1	A
2,4,5-T	ND		ug/kg	2040	63.2	1	A
2,4,5-TP (Silvex)	ND		ug/kg	2040	54.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	67		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-08
Client ID: CLMW-02-Z34-35
Sample Location: Not Specified

Date Collected: 11/01/24 15:40
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 02:43
Analyst: JAG
Percent Solids: 92%
Methylation Date: 11/15/24 17:50

Extraction Method: EPA 8151A
Extraction Date: 11/14/24 19:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3540	1110	1	A
MCPA	ND		ug/kg	3540	1000	1	A
Dalapon	ND		ug/kg	35.4	11.6	1	A
Dicamba	ND		ug/kg	35.4	5.94	1	A
Dichloroprop	ND		ug/kg	35.4	10.1	1	A
2,4-D	ND		ug/kg	177	11.1	1	A
2,4-DB	ND		ug/kg	177	9.09	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	75		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-09
Client ID: CLMW-02-Z45-46
Sample Location: Not Specified

Date Collected: 11/01/24 16:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 03:02
Analyst: JAG
Percent Solids: 89%
Methylation Date: 11/15/24 17:50

Extraction Method: EPA 8151A
Extraction Date: 11/14/24 19:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3730	1180	1	A
MCPA	ND		ug/kg	3730	1060	1	A
Dalapon	ND		ug/kg	37.3	12.2	1	A
Dicamba	ND		ug/kg	37.3	6.27	1	A
Dichloroprop	ND		ug/kg	37.3	10.7	1	A
2,4-D	ND		ug/kg	186	11.8	1	A
2,4-DB	ND		ug/kg	186	9.59	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	77		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/13/24 21:21
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 00:36

Methylation Date: 11/13/24 11:20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1996274-1						
MCPP	ND		ug/kg	3260	1030	A
MCPA	ND		ug/kg	3260	924.	A
Dalapon	ND		ug/kg	32.6	10.7	A
Dicamba	ND		ug/kg	32.6	5.49	A
Dichloroprop	ND		ug/kg	32.6	9.37	A
2,4-D	ND		ug/kg	163	10.3	A
2,4-DB	ND		ug/kg	163	8.39	A
2,4,5-T	ND		ug/kg	163	5.06	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	109		30-150	B

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/15/24 12:08
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/14/24 19:00

Methylation Date: 11/15/24 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06-09 Batch: WG1997689-1						
MCPP	ND		ug/kg	3240	1020	A
MCPA	ND		ug/kg	3240	916.	A
Dalapon	ND		ug/kg	32.4	10.6	A
Dicamba	ND		ug/kg	32.4	5.44	A
Dichloroprop	ND		ug/kg	32.4	9.29	A
2,4-D	ND		ug/kg	162	10.2	A
2,4-DB	ND		ug/kg	162	8.32	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0174
Project Number: 24K0174
Lab Number: L2464836
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1996274-2 WG1996274-3									
MCPP	79		82		30-150	4		30	A
MCPA	70		71		30-150	1		30	A
Dalapon	69		70		30-150	1		30	A
Dicamba	78		75		30-150	4		30	A
Dichloroprop	81		80		30-150	1		30	A
2,4-D	81		81		30-150	0		30	A
2,4-DB	105		94		30-150	11		30	A
2,4,5-T	83		79		30-150	5		30	A
2,4,5-TP (Silvex)	78		74		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	76		75		30-150	A
DCAA	114		83		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06-09 Batch: WG1997689-2 WG1997689-3									
MCPP	86		88		30-150	2		30	A
MCPA	76		81		30-150	6		30	A
Dalapon	57		58		30-150	2		30	A
Dicamba	81		84		30-150	4		30	A
Dichloroprop	79		82		30-150	4		30	A
2,4-D	81		82		30-150	1		30	A
2,4-DB	87		92		30-150	6		30	A
2,4,5-T	77		78		30-150	1		30	A
2,4,5-TP (Silvex)	75		78		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	77		81		30-150	A
DCAA	89		95		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 24K0174 ***Lab Number:*** L2464836

Project Number: 24K0174 ***Report Date:*** 11/20/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1996274-4 WG1996274-5 QC Sample: L2464836-05 Client ID: CLMW-05-Z44-45													
MCPP	ND	20000	17000	85		16900	85		30-150	1		30	A
MCPA	ND	20000	15300	77		15400	77		30-150	1		30	A
Dalapon	ND	200	137	69		149	75		30-150	8		30	A
Dicamba	ND	200	168	84		168	84		30-150	0		30	A
Dichloroprop	ND	200	161	81		163	82		30-150	1		30	A
2,4-D	ND	200	170J	85		174J	87		30-150	2		30	A
2,4-DB	ND	200	204	102		215	108		30-150	5		30	A
2,4,5-T	ND	200	170J	85		173J	87		30-150	2		30	A
2,4,5-TP (Silvex)	ND	200	165J	83		166J	83		30-150	1		30	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
DCAA	86		88		30-150	A
DCAA	90		89		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-01
Client ID: CLMW-05-Z11-12
Sample Location: Not Specified

Date Collected: 10/31/24 12:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	11/12/24 17:49	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-02
Client ID: CLMW-05-Z24-25
Sample Location: Not Specified

Date Collected: 10/31/24 12:20
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	11/12/24 17:49	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-03
Client ID: CLMW-05-Z34-35
Sample Location: Not Specified

Date Collected: 10/31/24 12:30
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	11/12/24 17:49	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-04
Client ID: CLMW-05-Z34-35Q
Sample Location: Not Specified

Date Collected: 10/31/24 12:35
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	11/12/24 17:49	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-05
Client ID: CLMW-05-Z44-45
Sample Location: Not Specified

Date Collected: 10/31/24 12:50
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	11/12/24 17:49	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-06
Client ID: CLMW-02-Z17-18
Sample Location: Not Specified

Date Collected: 11/01/24 14:30
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	11/13/24 21:16	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-07
Client ID: CLMW-02-Z28-29
Sample Location: Not Specified

Date Collected: 11/01/24 15:10
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	7.97		%	0.100	NA	1	-	11/13/24 21:16	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-08
Client ID: CLMW-02-Z34-35
Sample Location: Not Specified

Date Collected: 11/01/24 15:40
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	11/13/24 21:16	121,2540G	SJB

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2464836-09
Client ID: CLMW-02-Z45-46
Sample Location: Not Specified

Date Collected: 11/01/24 16:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	11/13/24 21:16	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1996535-1 QC Sample: L2464836-05 Client ID: CLMW-05-Z44-45						
Solids, Total	82.2	85.0	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 06-09 QC Batch ID: WG1997174-1 QC Sample: L2465570-01 Client ID: DUP Sample						
Solids, Total	88.5	89.1	%	1		20

Project Name: 24K0174
Project Number: 24K0174

Lab Number: L2464836
Report Date: 11/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2464836-01A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-02A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-03A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-04A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-05A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-05B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-05C	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-06A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-07A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-08A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464836-09A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)

*Values in parentheses indicate holding time in days

Project Name:	24K0174	**Lab Number:**	L2464836
Project Number:	24K0174	**Report Date:**	11/20/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0174	**Lab Number:**	L2464836
Project Number:	24K0174	**Report Date:**	11/20/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0174	**Lab Number:**	L2464836
Project Number:	24K0174	**Report Date:**	11/20/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24K0174 **Lab Number:** L2464836

Project Number: 24K0174 **Report Date:** 11/20/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K0174

L2464836

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

Alpha Analytical Laboratory
8 Walkup Drive
Westborough, MA 01581
Phone :(508) 898-9220
Fax: (508) 898-9193

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24K0174-01	**CLMW-05-Z11-12**	**Soil**	**Sampled:**	**10/31/24 12:00**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/14/24 12:00	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-02	**CLMW-05-Z24-25**	**Soil**	**Sampled:**	**10/31/24 12:20**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/14/24 12:20	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-03	**CLMW-05-Z34-35**	**Soil**	**Sampled:**	**10/31/24 12:30**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/14/24 12:30	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-04	**CLMW-05-Z34-35Q**	**Soil**	**Sampled:**	**10/31/24 12:35**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/14/24 12:35	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-05	**CLMW-05-Z44-45**	**Soil**	**Sampled:**	**10/31/24 12:50**	**CAT B, MS/MSD**
S-8151 DER TCL		12/04/24 14:00		11/14/24 12:50	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (M)	4 oz amber glass jar (N)	4 oz amber glass jar (O)			
Sample ID: 24K0174-06	**CLMW-02-Z17-18**	**Soil**	**Sampled:**	**11/01/24 14:30**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/15/24 14:30	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					

Released By	11-6-24 1630 Date	Received By	11-06-24 1630 Date
Released By	11-6-24 1800 Date	Received By	11/06 1800 Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K0174

L2464836

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24K0174-07	**CLMW-02-Z28-29**	**Soil**	**Sampled:**	**11/01/24 15:10**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/15/24 15:10	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-08	**CLMW-02-Z34-35**	**Soil**	**Sampled:**	**11/01/24 15:40**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/15/24 15:40	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0174-09	**CLMW-02-Z45-46**	**Soil**	**Sampled:**	**11/01/24 16:00**	**CAT B**
S-8151 DER TCL		12/04/24 14:00		11/15/24 16:00	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					

Released By	Date	Received By	Date
	11-6-24 1800		11-06-24 1630
Released By	Date	Received By	Date
			11/06 1800

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

24K0174

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: WSP USA / ENE
Consultant Address:	40 La Riviere Dr. Buffalo, NY
Consultant Phone:	(732) 979-7572
Callout Project Name:	Court & Luquer
Project Location:	Carroll Gardens, Brooklyn, NY
Callout Number:	C100913
Site/Spill Number:	224414
Project Manager:	G. Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	G. Mayer
Sampled By:	CP

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Clivia.Porrera@wsp.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
1	CLMW-05-Z11-12	10/31	1200		X	S	
2	CLMW-05-Z24-25		1220		X		
3	CLMW-05-Z34-35		1230		X		
4 **	CLMW-05-Z34-35D		1235		X		
5 *	CLMW-05-Z44-45	↓	1250		X		
6	CLMW-02-Z17-18	11/1	1430		X		
7	CLMW-02-Z28-29		1510		X		
8	CLMW-02-Z34-35		1540		X		
9	CLMW-02-Z45-46	↓	1600		X	↓	
10	TB-241101	11/1				W	

8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 1633	PFAS 537 ID	Mercury 7471B	Cyanide 9010 B			
3	1	1	1	1	1	1	1	1	1			

[1] # of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Plus MS/MSD
** Duplicate sample

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	(E+E/WSP)	Date/Time: 11/1/24, 1800
Received by: (signature)	WiFi Pace	Date/Time: 11/1/24 1800
Relinquished by: (signature)	WiFi Pace	Date/Time: 11/1/24 2030
Received by: (signature)	Anthony Green	Date/Time: NOV 01 2024 2045
Relinquished by: (signature)	Anthony Green	Date/Time: 11/2/24 0045
Received by: (signature)		Date/Time: 11/2/24 0045

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] NYCHA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

PACE 11/2/24 07:37 27 11/2/24 737

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 12, 2024

Aaron Fischer
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Carrol Gardens Brooklyn, NY
Client Job Number:
Project Number: 224414
Laboratory Work Order Number: 24K0481

Enclosed are results of analyses for samples as received by the laboratory on November 7, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/12/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0481

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Carrol Gardens Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-04-Z14-15	24K0481-01	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-04-Z22-23	24K0481-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-04-Z33-34	24K0481-03	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/12/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0481

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Carrol Gardens Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-04-Z45-46	24K0481-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-04-Z45-46Q	24K0481-05	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
CLMW-01-Z12-13	24K0481-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Aaron Fischer

REPORT DATE: 12/12/2024

PURCHASE ORDER NUMBER: 152447

PROJECT NUMBER: 224414

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0481

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Carrol Gardens Brooklyn, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CLMW-01-Z37-38	24K0481-07	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
FB-241106	24K0481-08	Field Blank		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
S115152-CCB1, S115152-CCB2, S115152-IBL1, S115298-CCB2, S115298-IBL1

13C2-6:2FTS
S115152-CCB1, S115152-CCB2, S115152-IBL1, S115298-CCB2

13C2-8:2FTS
S115152-CCB2, S115152-IBL1

13C2-PFTeDA
S115152-CCB2

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
S115152-CCB2, S115152-IBL1

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
S115152-CCB1, S115152-CCB2, S115152-IBL1, S115298-CCB2, S115298-IBL1

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
S115152-CCB1, S115152-CCB2, S115152-IBL1, S115298-CCB2

D3-NMeFOSAA
S115152-CCB2

D5-NEtFOSAA
S115152-CCB2, S115152-CCB3, S115152-CCB4, S115201-CCB3, S115298-CCB2

D7-NMeFOSE
S115152-CCB2

D9-NEtFOSE
S115152-CCB2

N-EtFOSAA (NEtFOSAA)
S115152-CCB2, S115152-CCB3, S115152-CCB4, S115201-CCB3, S115298-CCB2

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S115152-CCB2

N-MeFOSAA (NMeFOSAA)
S115152-CCB2

N-methylperfluorooctanesulfonamidoethanol(NMeF
S115152-CCB2

Perfluorotetradecanoic acid (PFTeDA)
S115152-CCB2

PF-17C

Extracted internal standard is outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:

D3-NMeFOSAA
B393456-BS1

N-MeFOSAA (NMeFOSAA)
B393456-BS1

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C2-8:2FTS
24K0481-04[CLMW-04-Z45-46], B393456-BS1

13C2-PFDoA
24K0481-04[CLMW-04-Z45-46]

13C3-PFBS
24K0481-04[CLMW-04-Z45-46]

13C3-PFHxS
24K0481-04[CLMW-04-Z45-46], B393456-BS1

13C6-PFDA
24K0481-04[CLMW-04-Z45-46], B393456-BS1

13C7-PFUnA
24K0481-04[CLMW-04-Z45-46]

13C8-PFOS
24K0481-04[CLMW-04-Z45-46], B393456-BS1

13C8-PFOSA
B393456-BS1

13C9-PFNA
24K0481-04[CLMW-04-Z45-46], B393456-BS1

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorobutanesulfonic acid (PFBS)
24K0481-04[CLMW-04-Z45-46]

Perfluorodecanesulfonic acid (PFDS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorodecanoic acid (PFDA)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorododecanesulfonic acid (PFDoS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorododecanoic acid (PFDoA)
24K0481-04[CLMW-04-Z45-46]

Perfluoroheptanesulfonic acid (PFHpS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorohexanesulfonic acid (PFHxS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorononanesulfonic acid (PFNS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorononanoic acid (PFNA)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluorooctanesulfonamide (PFOSA)
B393456-BS1

Perfluorooctanesulfonic acid (PFOS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluoropentanesulfonic acid (PFPeS)
24K0481-04[CLMW-04-Z45-46], B393456-BS1

Perfluoroundecanoic acid (PFUnA)
24K0481-04[CLMW-04-Z45-46]

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38]

SW-846 6010D

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Magnesium

B391801-BLK1, B391801-BS1, B391801-BSD1, B391801-SRL1

Zinc

24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-08[FB-241106], B391801-BLK2, B391808-BS4, B391808-BSD4, B391808-DUP2, B391808-MS2

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Magnesium

24K0481-08[FB-241106]

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Zinc

24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], B391808-BLK3, B391808-DUP2

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

24K0481-01[CLMW-04-Z14-15], B391808-MS1

Barium

24K0481-07[CLMW-01-Z37-38], B391774-MS1

Selenium

24K0481-01[CLMW-04-Z14-15], B391808-MS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

24K0481-07[CLMW-01-Z37-38], B391774-MS2, B391774-MSD2

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Barium

24K0481-01[CLMW-04-Z14-15], B391808-MS1

Nickel

24K0481-01[CLMW-04-Z14-15], B391808-MS1

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum
24K0481-01[CLMW-04-Z14-15], 24K0481-07[CLMW-01-Z37-38], B391774-MS2, B391774-MSD2, B391808-MS1

Calcium
24K0481-01[CLMW-04-Z14-15], 24K0481-07[CLMW-01-Z37-38], B391774-MS1, B391774-MSD1, B391808-MS1

Iron
24K0481-01[CLMW-04-Z14-15], 24K0481-07[CLMW-01-Z37-38], B391774-MS3, B391774-MSD3, B391808-MS1

Magnesium
24K0481-01[CLMW-04-Z14-15], 24K0481-07[CLMW-01-Z37-38], B391774-MS2, B391774-MSD2, B391808-MS1

Manganese
24K0481-01[CLMW-04-Z14-15], 24K0481-07[CLMW-01-Z37-38], B391774-MS1, B391774-MSD1, B391808-MS1

Potassium
24K0481-01[CLMW-04-Z14-15], B391774-MS1, B391774-MSD1, B391808-MS1

Sodium
24K0481-01[CLMW-04-Z14-15], B391808-MS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Chromium
B391774-MSD1

SW-846 8081B

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Endrin
B391979-BSD1

Endrin [2C]
B391979-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Dieldrin
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1, B391979-BSD1

Dieldrin [2C]
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1, B391979-BSD1

Endrin
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1

Endrin [2C]
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1

Endrin Ketone
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1, B391979-BSD1

Endrin Ketone [2C]
24K0481-08[FB-241106], B391979-BLK1, B391979-BS1, B391979-BSD1

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R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

alpha-BHC
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

alpha-BHC [2C]
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

delta-BHC
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

delta-BHC [2C]
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endosulfan I
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endosulfan I [2C]
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endosulfan II
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endosulfan II [2C]
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endrin Aldehyde
24K0481-07RE1[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

Endrin Aldehyde [2C]
24K0481-07RE1[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

gamma-BHC (Lindane)
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

gamma-BHC (Lindane) [2C]
24K0481-07[CLMW-01-Z37-38], B392152-MS1, B392152-MSD1

SW-846 8260D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1

Acetone
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Methylene Chloride
B392083-BS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Ethanol
24K0481-07[CLMW-01-Z37-38], B391897-MS1, B391897-MSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromochloromethane
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1

Diisopropyl Ether (DIPE)
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1

tert-Butyl Alcohol (TBA)
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Acetone
24K0481-08[FB-241106], B392083-BLK1, B392083-BS1, B392083-BSD1, S113975-CCV1

Ethanol
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391897-BLK1, B391897-BS2, B391897-BSD2, B391897-MS1, B391897-MSD1, S 113681-CCV2

Naphthalene
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391897-BLK1, B391897-BS1, B391897-BSD1, B391897-MS1, B391897-MSD1, S 113681-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzene
B392083-BS1, B392083-BSD1, S113975-CCV1

Ethanol
B392083-BS1, B392083-BSD1, S113975-CCV1

Methylene Chloride
B392083-BS1, B392083-BSD1, S113975-CCV1

SW-846 8270E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

1,4-Dioxane
24K0481-08[FB-241106], B391943-BLK1, B391943-BS1, B391943-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1

Hexachlorocyclopentadiene
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1

Pyridine
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
B391939-MS1, B391939-MSD1

Pyridine
B391939-MS1, B391939-MSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B391980-BS1, B391980-BSD1

Hexachlorobutadiene
B391980-BS1, B391980-BSD1

Pyridine
B391980-BS1, B391980-BSD1

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R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B391939-MS1, B391939-MSD1

4,6-Dinitro-2-methylphenol
B391939-MS1, B391939-MSD1

SM-05

Insufficient sample for reanalysis.

Analyte & Samples(s) Qualified:

24K0481-08[FB-241106]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

Dibenz(a,h)anthracene
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

Di-n-octylphthalate
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

Indeno(1,2,3-cd)pyrene
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], 24K0481-08[FB-241106], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1, S113776-CCV1, S113897-CCV1, S113934-CCV1

4-Nitrophenol
24K0481-08[FB-241106], S113934-CCV1

Aniline
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

Benzaldehyde
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1, S 113776-CCV2, S113897-CCV2

Hexachlorocyclopentadiene
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1, S 113776-CCV1, S113897-CCV1

Pentachlorophenol
24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1, S 113776-CCV1, S113897-CCV1

Pyridine
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Pyrene
24K0481-08[FB-241106], B391980-BLK1, B391980-BS1, B391980-BSD1, S113934-CCV1

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V-34

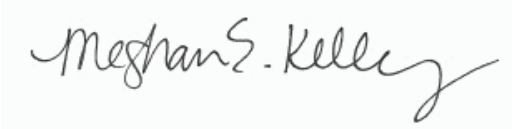
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24K0481-01[CLMW-04-Z14-15], 24K0481-02[CLMW-04-Z22-23], 24K0481-03[CLMW-04-Z33-34], 24K0481-04[CLMW-04-Z45-46], 24K0481-05[CLMW-04-Z45-46Q], 24K0481-06[CLMW-01-Z12-13], 24K0481-07[CLMW-01-Z37-38], 24K0481-08[FB-241106], B391939-BLK1, B391939-BS1, B391939-BSD1, B391939-MS1, B391939-MSD1, B391980-BLK1, B391980-BS1, B391980-BSD1, S108638-ICV1, S113776-CCV1, S113897-CCV1, S113934-CCV1, S114725-ICV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.087	0.045	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0037	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00087	0.00081	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Benzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Bromochloromethane	ND	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Bromodichloromethane	ND	0.0017	0.00045	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Bromoform	ND	0.0017	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Bromomethane	ND	0.0087	0.0015	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
2-Butanone (MEK)	ND	0.035	0.0073	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Butyl Alcohol (TBA)	ND	0.087	0.036	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
n-Butylbenzene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
sec-Butylbenzene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Butylbenzene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00087	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Carbon Disulfide	ND	0.017	0.0087	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Carbon Tetrachloride	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Chlorobenzene	ND	0.0017	0.00042	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Chlorodibromomethane	ND	0.00087	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Chloroform	ND	0.0035	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Chloromethane	ND	0.0087	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Cyclohexane	ND	0.0087	0.0035	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2-Dibromoethane (EDB)	ND	0.00087	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1-Dichloroethane	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2-Dichloroethane	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1-Dichloroethylene	ND	0.0035	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2-Dichloropropane	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
cis-1,3-Dichloropropene	ND	0.00087	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
trans-1,3-Dichloropropene	ND	0.00087	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Diisopropyl Ether (DIPE)	ND	0.00087	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Ethanol	ND	0.17	0.035	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Ethylbenzene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
2-Hexanone (MBK)	ND	0.017	0.0060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Methyl Acetate	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Methyl Cyclohexane	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Methylene Chloride	ND	0.017	0.00081	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Naphthalene	ND	0.0035	0.00086	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 7:38	MFF
n-Propylbenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Styrene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.00087	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Tetrachloroethylene	ND	0.0017	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Toluene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00045	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Trichloroethylene	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0087	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0087	0.00091	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Vinyl Chloride	ND	0.0087	0.00068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
m+p Xylene	ND	0.0035	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/11/24 7:38
Toluene-d8	100	70-130		11/11/24 7:38
4-Bromofluorobenzene	99.0	70-130		11/11/24 7:38

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Biphenyl	ND	0.77	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Caprolactam	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Aniline	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzo(a)anthracene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzo(g,h,i)perylene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Bromophenylphenylether	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Butylbenzylphthalate	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Chrysene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Dibenz(a,h)anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
3,3-Dichlorobenzidine	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Diethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4-Dimethylphenol	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4-Dinitrotoluene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Fluorene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Hexachlorobenzene	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC

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Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	V-05, L-04	SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Isophorone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
1-Methylnaphthalene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
3/4-Methylphenol	ND	0.39	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Naphthalene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Nitroaniline	ND	0.39	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Nitroaniline	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Pyrene	ND	0.19	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
Pyridine	ND	0.39	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 14:12	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:12	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.0	30-130		11/14/24 14:12
Phenol-d6	58.1	30-130		11/14/24 14:12
Nitrobenzene-d5	56.6	30-130		11/14/24 14:12
2-Fluorobiphenyl	59.2	30-130		11/14/24 14:12
2,4,6-Tribromophenol	63.7	30-130		11/14/24 14:12
p-Terphenyl-d14	66.1	30-130		11/14/24 14:12

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 14:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	42.3	15-110		11/15/24 14:07

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Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorooctanoic acid (PFOA)	0.077	0.20	0.068	µg/kg dry	1	J	Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 22:52	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	91.6	8-130		12/10/24 22:52
13C5-PFPeA	91.6	35-130		12/10/24 22:52
13C5-PFHxA	91.0	40-130		12/10/24 22:52
13C4-PFHpA	86.9	40-130		12/10/24 22:52
13C8-PFOA	93.8	40-130		12/10/24 22:52
13C9-PFNA	91.2	40-130		12/10/24 22:52
13C6-PFDA	88.7	40-130		12/10/24 22:52
13C7-PFUnA	89.6	40-130		12/10/24 22:52
13C2-PFDoA	86.8	40-130		12/10/24 22:52
13C2-PFTeDA	71.1	20-130		12/10/24 22:52
13C3-PFBS	94.5	40-135		12/10/24 22:52
13C3-PFHxS	91.6	40-130		12/10/24 22:52
13C8-PFOS	95.1	40-130		12/10/24 22:52
13C2-4:2FTS	91.7	40-165		12/10/24 22:52
13C2-6:2FTS	83.2	40-215		12/10/24 22:52
13C2-8:2FTS	84.8	40-275		12/10/24 22:52
13C8-PFOSA	91.1	40-130		12/10/24 22:52
D3-NMeFOSA	77.1	10-130		12/10/24 22:52
D5-NEtFOSA	76.2	10-130		12/10/24 22:52
D3-NMeFOSAA	105	40-135		12/10/24 22:52
D5-NEtFOSAA	112	40-150		12/10/24 22:52
D7-NMeFOSE	83.0	20-130		12/10/24 22:52
D9-NEtFOSE	79.6	15-130		12/10/24 22:52
13C3-HFPO-DA	101	40-130		12/10/24 22:52

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
gamma-Chlordane [1]	ND	0.0056	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Aldrin [1]	ND	0.0056	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
alpha-BHC [1]	ND	0.0056	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
beta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
delta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
4,4'-DDD [1]	ND	0.0045	0.00095	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
4,4'-DDE [1]	ND	0.0045	0.00050	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
4,4'-DDT [1]	ND	0.0045	0.00058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Dieldrin [1]	ND	0.0045	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Endosulfan I [1]	ND	0.0056	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Endosulfan II [1]	ND	0.0090	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Endosulfan sulfate [1]	ND	0.0090	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Endrin [1]	ND	0.0090	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Endrin aldehyde [1]	ND	0.0090	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 1:58	TG
Endrin ketone [1]	ND	0.0090	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Heptachlor [1]	ND	0.0056	0.00062	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Heptachlor epoxide [1]	ND	0.0056	0.00065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Methoxychlor [1]	ND	0.056	0.0067	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 19:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		11/21/24 1:58
Decachlorobiphenyl [1]	90.8	30-150		11/20/24 19:51
Decachlorobiphenyl [2]	105	30-150		11/21/24 1:58
Decachlorobiphenyl [2]	90.2	30-150		11/20/24 19:51
Tetrachloro-m-xylene [1]	73.2	30-150		11/20/24 19:51
Tetrachloro-m-xylene [1]	84.1	30-150		11/21/24 1:58
Tetrachloro-m-xylene [2]	76.8	30-150		11/20/24 19:51
Tetrachloro-m-xylene [2]	87.8	30-150		11/21/24 1:58

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1221 [1]	ND	0.090	0.042	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1232 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1242 [1]	ND	0.090	0.025	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1248 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1254 [1]	ND	0.090	0.027	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1260 [1]	ND	0.090	0.019	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1262 [1]	ND	0.090	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW
Aroclor-1268 [1]	ND	0.090	0.024	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 18:57	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.4	30-150		11/14/24 18:57
Decachlorobiphenyl [2]	92.1	30-150		11/14/24 18:57
Tetrachloro-m-xylene [1]	69.0	30-150		11/14/24 18:57
Tetrachloro-m-xylene [2]	76.2	30-150		11/14/24 18:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6500	17	5.3	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Antimony	ND	1.7	0.45	mg/Kg dry	1	MS-07	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Arsenic	1.9	3.4	0.47	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Barium	46	1.7	0.36	mg/Kg dry	1	MS-11	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Beryllium	0.41	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Cadmium	0.22	0.34	0.16	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Calcium	1700	17	8.7	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Chromium	14	0.67	0.42	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Cobalt	5.7	1.7	0.28	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Copper	19	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:23	MJH
Iron	12000	17	7.8	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Lead	5.5	0.50	0.35	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:23	MJH
Magnesium	3500	17	3.9	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Manganese	270	0.34	0.19	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:19	MJH
Nickel	16	0.67	0.46	mg/Kg dry	1	MS-11	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Potassium	1400	170	41	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Selenium	ND	3.4	0.83	mg/Kg dry	1	MS-07	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Sodium	760	170	50	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Thallium	ND	1.7	0.54	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:23	MJH
Vanadium	18	0.67	0.37	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:21	MJH
Zinc	30	0.67	0.59	mg/Kg dry	1	B-07, B	SW-846 6010D	11/8/24	11/14/24 5:23	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z14-15 Sampled: 11/5/2024 13:00

Sample ID: 24K0481-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7			% Wt	1		SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1		SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Amyl Alcohol (TAA)	ND	0.019	0.0041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00096	0.00089	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Benzene	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Bromochloromethane	ND	0.0019	0.00082	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Bromodichloromethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Bromoform	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Bromomethane	ND	0.0096	0.0017	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
2-Butanone (MEK)	ND	0.038	0.0081	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Butyl Alcohol (TBA)	ND	0.096	0.039	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
n-Butylbenzene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
sec-Butylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Butylbenzene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00096	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Carbon Disulfide	ND	0.019	0.0096	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Carbon Tetrachloride	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Chlorobenzene	ND	0.0019	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Chlorodibromomethane	ND	0.00096	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Chloroethane	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Chloroform	ND	0.0038	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Chloromethane	ND	0.0096	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Cyclohexane	ND	0.0096	0.0039	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1-Dichloroethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1-Dichloroethylene	ND	0.0038	0.00092	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2-Dichloropropane	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00073	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Diisopropyl Ether (DIPE)	ND	0.00096	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Ethanol	ND	0.19	0.038	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Ethylbenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
2-Hexanone (MBK)	ND	0.019	0.0066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Methyl Acetate	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Methyl Cyclohexane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Methylene Chloride	ND	0.019	0.00090	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Naphthalene	ND	0.0038	0.00095	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 9:20	MFF
n-Propylbenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Styrene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Tetrachloroethylene	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Toluene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Trichloroethylene	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00092	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Vinyl Chloride	ND	0.0096	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
m+p Xylene	ND	0.0038	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
o-Xylene	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF
Xylenes (total)	ND	0.0019	0.0019	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/11/24 9:20
Toluene-d8	101	70-130		11/11/24 9:20
4-Bromofluorobenzene	98.2	70-130		11/11/24 9:20

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.69	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Atrazine	ND	0.69	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzaldehyde	ND	0.35	0.056	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Biphenyl	ND	0.69	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Caprolactam	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Acenaphthene	ND	0.18	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Acenaphthylene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Acetophenone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Aniline	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Anthracene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzo(a)anthracene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzo(a)pyrene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzo(b)fluoranthene	ND	0.18	0.028	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzo(g,h,i)perylene	ND	0.18	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Benzo(k)fluoranthene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Bis(2-chloroethoxy)methane	ND	0.35	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Bis(2-chloroethyl)ether	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.35	0.22	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Bromophenylphenylether	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Butylbenzylphthalate	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Carbazole	ND	0.18	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Chloroaniline	ND	0.68	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Chloro-3-methylphenol	ND	0.68	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Chloronaphthalene	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Chlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Chlorophenylphenylether	ND	0.35	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Chrysene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Dibenz(a,h)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Dibenzofuran	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Di-n-butylphthalate	ND	0.35	0.13	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
3,3-Dichlorobenzidine	ND	0.18	0.076	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4-Dichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Diethylphthalate	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4-Dimethylphenol	ND	0.35	0.081	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Dimethylphthalate	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4,6-Dinitro-2-methylphenol	ND	0.35	0.28	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4-Dinitrophenol	ND	0.68	0.27	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4-Dinitrotoluene	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,6-Dinitrotoluene	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Di-n-octylphthalate	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Fluoranthene	ND	0.18	0.029	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Fluorene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Hexachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1	V-05, L-04	SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Hexachloroethane	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Indeno(1,2,3-cd)pyrene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Isophorone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
1-Methylnaphthalene	ND	0.18	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Methylnaphthalene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Methylphenol	ND	0.35	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
3/4-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Naphthalene	ND	0.18	0.062	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Nitroaniline	ND	0.35	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
3-Nitroaniline	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Nitroaniline	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Nitrobenzene	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2-Nitrophenol	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
4-Nitrophenol	ND	0.68	0.094	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
N-Nitrosodi-n-propylamine	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Pentachlorophenol	ND	0.35	0.13	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Phenanthrene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Phenol	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Pyrene	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
Pyridine	ND	0.35	0.041	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 14:33	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4,5-Trichlorophenol	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC
2,4,6-Trichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:33	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.5	30-130		11/14/24 14:33
Phenol-d6	55.2	30-130		11/14/24 14:33
Nitrobenzene-d5	53.9	30-130		11/14/24 14:33
2-Fluorobiphenyl	56.3	30-130		11/14/24 14:33
2,4,6-Tribromophenol	63.2	30-130		11/14/24 14:33
p-Terphenyl-d14	69.4	30-130		11/14/24 14:33

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.050	0.039	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 14:47	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	44.8	15-110					11/15/24 14:47	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:02	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	76.0	8-130		12/10/24 23:02
13C5-PFPeA	68.4	35-130		12/10/24 23:02
13C5-PFHxA	67.2	40-130		12/10/24 23:02
13C4-PFHpA	58.9	40-130		12/10/24 23:02
13C8-PFOA	65.2	40-130		12/10/24 23:02
13C9-PFNA	58.8	40-130		12/10/24 23:02
13C6-PFDA	58.3	40-130		12/10/24 23:02
13C7-PFUnA	55.5	40-130		12/10/24 23:02
13C2-PFDoA	50.7	40-130		12/10/24 23:02
13C2-PFTeDA	38.0	20-130		12/10/24 23:02
13C3-PFBS	64.1	40-135		12/10/24 23:02
13C3-PFHxS	54.4	40-130		12/10/24 23:02
13C8-PFOS	51.3	40-130		12/10/24 23:02
13C2-4:2FTS	75.2	40-165		12/10/24 23:02
13C2-6:2FTS	62.1	40-215		12/10/24 23:02
13C2-8:2FTS	51.2	40-275		12/10/24 23:02
13C8-PFOSA	74.6	40-130		12/10/24 23:02
D3-NMeFOSA	60.6	10-130		12/10/24 23:02
D5-NEtFOSA	59.2	10-130		12/10/24 23:02
D3-NMeFOSAA	56.9	40-135		12/10/24 23:02
D5-NEtFOSAA	54.9	40-150		12/10/24 23:02
D7-NMeFOSE	67.0	20-130		12/10/24 23:02
D9-NEtFOSE	60.9	15-130		12/10/24 23:02
13C3-HFPO-DA	82.2	40-130		12/10/24 23:02

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0048	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
gamma-Chlordane [1]	ND	0.0048	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Aldrin [1]	ND	0.0048	0.00047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
alpha-BHC [1]	ND	0.0048	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
beta-BHC [1]	ND	0.0048	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
delta-BHC [1]	ND	0.0048	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
gamma-BHC (Lindane) [1]	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
4,4'-DDD [1]	ND	0.0039	0.00082	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
4,4'-DDE [1]	ND	0.0039	0.00043	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
4,4'-DDT [1]	ND	0.0039	0.00050	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Dieldrin [1]	ND	0.0039	0.00046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Endosulfan I [1]	ND	0.0048	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Endosulfan II [1]	ND	0.0077	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Endosulfan sulfate [1]	ND	0.0077	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Endrin [1]	ND	0.0077	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Endrin aldehyde [1]	ND	0.0077	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 2:10	TG
Endrin ketone [1]	ND	0.0077	0.0019	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Heptachlor [1]	ND	0.0048	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Heptachlor epoxide [1]	ND	0.0048	0.00056	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Methoxychlor [1]	ND	0.048	0.0057	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG
Toxaphene [1]	ND	0.097	0.040	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		11/21/24 2:10
Decachlorobiphenyl [1]	90.4	30-150		11/20/24 20:03
Decachlorobiphenyl [2]	105	30-150		11/21/24 2:10
Decachlorobiphenyl [2]	90.4	30-150		11/20/24 20:03
Tetrachloro-m-xylene [1]	80.9	30-150		11/21/24 2:10
Tetrachloro-m-xylene [1]	69.9	30-150		11/20/24 20:03
Tetrachloro-m-xylene [2]	72.7	30-150		11/20/24 20:03
Tetrachloro-m-xylene [2]	84.0	30-150		11/21/24 2:10

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1221 [1]	ND	0.077	0.036	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1232 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1242 [1]	ND	0.077	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1248 [1]	ND	0.077	0.019	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1254 [1]	ND	0.077	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1260 [1]	ND	0.077	0.016	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1262 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW
Aroclor-1268 [1]	ND	0.077	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:14	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.5	30-150		11/14/24 19:14
Decachlorobiphenyl [2]	90.5	30-150		11/14/24 19:14
Tetrachloro-m-xylene [1]	64.3	30-150		11/14/24 19:14
Tetrachloro-m-xylene [2]	72.0	30-150		11/14/24 19:14

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3300	17	5.3	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Antimony	ND	1.7	0.44	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Arsenic	2.0	3.3	0.47	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Barium	43	1.7	0.36	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Beryllium	0.24	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Cadmium	0.22	0.33	0.16	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Calcium	2400	17	8.7	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Chromium	8.1	0.67	0.42	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Cobalt	3.3	1.7	0.28	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Copper	13	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:30	MJH
Iron	7700	17	7.7	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Lead	3.4	0.50	0.35	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:30	MJH
Magnesium	2100	17	3.9	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Manganese	250	0.33	0.19	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Mercury	ND	0.024	0.011	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:21	MJH
Nickel	8.5	0.67	0.46	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Potassium	1000	170	41	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Selenium	ND	3.3	0.83	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Silver	ND	0.33	0.21	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Sodium	140	170	50	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Thallium	ND	1.7	0.53	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:30	MJH
Vanadium	16	0.67	0.37	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:29	MJH
Zinc	17	0.67	0.59	mg/Kg dry	1	B-07, B	SW-846 6010D	11/8/24	11/14/24 5:30	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z22-23 Sampled: 11/5/2024 13:20

Sample ID: 24K0481-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.1			% Wt	1		SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	0.041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0034	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00079	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Benzene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Bromochloromethane	ND	0.0016	0.00068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Bromodichloromethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Bromoform	ND	0.0016	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Bromomethane	ND	0.0079	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
2-Butanone (MEK)	ND	0.032	0.0067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Butyl Alcohol (TBA)	ND	0.079	0.033	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
n-Butylbenzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
sec-Butylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Butylbenzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00079	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Carbon Disulfide	ND	0.016	0.0080	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Carbon Tetrachloride	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Chlorobenzene	ND	0.0016	0.00038	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Chlorodibromomethane	ND	0.00079	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Chloroform	ND	0.0032	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Chloromethane	ND	0.0079	0.00096	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Cyclohexane	ND	0.0079	0.0032	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1-Dichloroethane	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2-Dichloroethane	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1-Dichloroethylene	ND	0.0032	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2-Dichloropropane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
cis-1,3-Dichloropropene	ND	0.00079	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
trans-1,3-Dichloropropene	ND	0.00079	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Diisopropyl Ether (DIPE)	ND	0.00079	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Ethanol	ND	0.16	0.032	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Ethylbenzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
2-Hexanone (MBK)	ND	0.016	0.0054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Methyl Cyclohexane	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Methylene Chloride	ND	0.016	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Naphthalene	ND	0.0032	0.00078	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 9:45	MFF
n-Propylbenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Styrene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Tetrachloroethylene	ND	0.0016	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Toluene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Trichloroethylene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	0.00093	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0079	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Vinyl Chloride	ND	0.0079	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
m+p Xylene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
o-Xylene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 9:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		11/11/24 9:45
Toluene-d8	101	70-130		11/11/24 9:45
4-Bromofluorobenzene	99.1	70-130		11/11/24 9:45

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Atrazine	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Caprolactam	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Acenaphthene	ND	0.18	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Acenaphthylene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Acetophenone	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Aniline	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Anthracene	ND	0.18	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzo(a)anthracene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzo(a)pyrene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzo(b)fluoranthene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzo(g,h,i)perylene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Benzo(k)fluoranthene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Carbazole	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Chloroaniline	ND	0.72	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Chloro-3-methylphenol	ND	0.72	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Chloronaphthalene	ND	0.37	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Chlorophenylphenylether	ND	0.37	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Chrysene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Dibenz(a,h)anthracene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
3,3-Dichlorobenzidine	ND	0.18	0.079	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Diethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4-Dimethylphenol	ND	0.37	0.085	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4-Dinitrophenol	ND	0.72	0.28	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4-Dinitrotoluene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Di-n-octylphthalate	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Fluoranthene	ND	0.18	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Fluorene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Hexachlorobenzene	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Indeno(1,2,3-cd)pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Isophorone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
1-Methylnaphthalene	ND	0.18	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Methylnaphthalene	ND	0.18	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
3/4-Methylphenol	ND	0.37	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Naphthalene	ND	0.18	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Nitrobenzene	ND	0.37	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
4-Nitrophenol	ND	0.72	0.098	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Phenanthrene	ND	0.18	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Pyrene	ND	0.18	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 14:53	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 14:53	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.9	30-130		11/14/24 14:53
Phenol-d6	51.5	30-130		11/14/24 14:53
Nitrobenzene-d5	47.0	30-130		11/14/24 14:53
2-Fluorobiphenyl	54.6	30-130		11/14/24 14:53
2,4,6-Tribromophenol	62.4	30-130		11/14/24 14:53
p-Terphenyl-d14	65.9	30-130		11/14/24 14:53

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.052	0.041	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 15:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	41.4	15-110		11/15/24 15:07

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:11	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.7	8-130		12/10/24 23:11
13C5-PFPeA	90.5	35-130		12/10/24 23:11
13C5-PFHxA	93.2	40-130		12/10/24 23:11
13C4-PFHpA	89.0	40-130		12/10/24 23:11
13C8-PFOA	97.9	40-130		12/10/24 23:11
13C9-PFNA	98.7	40-130		12/10/24 23:11
13C6-PFDA	98.9	40-130		12/10/24 23:11
13C7-PFUnA	97.5	40-130		12/10/24 23:11
13C2-PFDoA	96.1	40-130		12/10/24 23:11
13C2-PFTeDA	84.6	20-130		12/10/24 23:11
13C3-PFBS	94.6	40-135		12/10/24 23:11
13C3-PFHxS	90.3	40-130		12/10/24 23:11
13C8-PFOS	95.0	40-130		12/10/24 23:11
13C2-4:2FTS	97.7	40-165		12/10/24 23:11
13C2-6:2FTS	92.6	40-215		12/10/24 23:11
13C2-8:2FTS	82.4	40-275		12/10/24 23:11
13C8-PFOSA	93.3	40-130		12/10/24 23:11
D3-NMeFOSA	86.3	10-130		12/10/24 23:11
D5-NEtFOSA	83.7	10-130		12/10/24 23:11
D3-NMeFOSAA	101	40-135		12/10/24 23:11
D5-NEtFOSAA	108	40-150		12/10/24 23:11
D7-NMeFOSE	85.6	20-130		12/10/24 23:11
D9-NEtFOSE	86.4	15-130		12/10/24 23:11
13C3-HFPO-DA	102	40-130		12/10/24 23:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
gamma-Chlordane [1]	ND	0.0052	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Aldrin [1]	ND	0.0052	0.00051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
alpha-BHC [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
beta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
delta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
4,4'-DDD [1]	ND	0.0042	0.00089	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
4,4'-DDE [1]	ND	0.0042	0.00046	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
4,4'-DDT [1]	ND	0.0042	0.00054	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Dieldrin [1]	ND	0.0042	0.00050	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Endosulfan I [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Endosulfan II [1]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Endosulfan sulfate [1]	ND	0.0083	0.0020	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Endrin [1]	ND	0.0083	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Endrin aldehyde [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 2:22	TG
Endrin ketone [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Heptachlor [1]	ND	0.0052	0.00057	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Heptachlor epoxide [1]	ND	0.0052	0.00060	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Methoxychlor [1]	ND	0.052	0.0062	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG
Toxaphene [1]	ND	0.10	0.044	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		11/20/24 20:15
Decachlorobiphenyl [1]	96.5	30-150		11/21/24 2:22
Decachlorobiphenyl [2]	85.3	30-150		11/20/24 20:15
Decachlorobiphenyl [2]	94.7	30-150		11/21/24 2:22
Tetrachloro-m-xylene [1]	78.9	30-150		11/21/24 2:22
Tetrachloro-m-xylene [1]	71.3	30-150		11/20/24 20:15
Tetrachloro-m-xylene [2]	74.0	30-150		11/20/24 20:15
Tetrachloro-m-xylene [2]	81.9	30-150		11/21/24 2:22

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1221 [1]	ND	0.083	0.039	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1232 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1242 [1]	ND	0.083	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1248 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1254 [1]	ND	0.083	0.025	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1260 [1]	ND	0.083	0.017	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1262 [1]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW
Aroclor-1268 [1]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:31	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.5	30-150		11/14/24 19:31
Decachlorobiphenyl [2]	81.6	30-150		11/14/24 19:31
Tetrachloro-m-xylene [1]	62.7	30-150		11/14/24 19:31
Tetrachloro-m-xylene [2]	69.3	30-150		11/14/24 19:31

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	15	4.9	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Antimony	ND	1.5	0.41	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Arsenic	2.6	3.1	0.44	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Barium	62	1.5	0.33	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Beryllium	0.45	0.15	0.047	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Cadmium	0.18	0.31	0.15	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Calcium	5500	15	8.0	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Chromium	10	0.62	0.39	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Cobalt	4.7	1.5	0.26	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Copper	16	1.2	1.1	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:38	MJH
Iron	10000	15	7.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Lead	5.1	0.46	0.33	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:38	MJH
Magnesium	3000	15	3.6	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Manganese	210	0.31	0.18	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Mercury	ND	0.026	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:23	MJH
Nickel	12	0.62	0.43	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Potassium	1000	150	38	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Selenium	ND	3.1	0.77	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Silver	ND	0.31	0.19	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Sodium	340	150	46	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Thallium	ND	1.5	0.49	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:38	MJH
Vanadium	17	0.62	0.34	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:37	MJH
Zinc	22	0.62	0.54	mg/Kg dry	1	B-07, B	SW-846 6010D	11/8/24	11/14/24 5:38	MJH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z33-34 Sampled: 11/5/2024 14:10

Sample ID: 24K0481-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5			% Wt	1		SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	0.48	0.50	0.38	mg/Kg dry	1	J	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	0.049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Amyl Alcohol (TAA)	ND	0.019	0.0041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00095	0.00089	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Benzene	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Bromochloromethane	ND	0.0019	0.00082	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Bromodichloromethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Bromoform	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Bromomethane	ND	0.0095	0.0017	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
2-Butanone (MEK)	ND	0.038	0.0081	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Butyl Alcohol (TBA)	ND	0.095	0.039	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
n-Butylbenzene	ND	0.0019	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
sec-Butylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Butylbenzene	ND	0.0019	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00095	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Carbon Disulfide	ND	0.019	0.0096	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Carbon Tetrachloride	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Chlorobenzene	ND	0.0019	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Chlorodibromomethane	ND	0.00095	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Chloroethane	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Chloroform	ND	0.0038	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Chloromethane	ND	0.0095	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Cyclohexane	ND	0.0095	0.0039	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1-Dichloroethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1-Dichloroethylene	ND	0.0038	0.00091	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2-Dichloropropane	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
cis-1,3-Dichloropropene	ND	0.00095	0.00072	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
trans-1,3-Dichloropropene	ND	0.00095	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Diisopropyl Ether (DIPE)	ND	0.00095	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Ethanol	ND	0.19	0.038	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Ethylbenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
2-Hexanone (MBK)	ND	0.019	0.0065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Methyl Acetate	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Methyl Cyclohexane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Methylene Chloride	ND	0.019	0.00089	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Naphthalene	ND	0.0038	0.00094	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 10:11	MFF
n-Propylbenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Styrene	ND	0.0019	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	0.00073	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Tetrachloroethylene	0.0050	0.0019	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Toluene	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Trichloroethylene	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00092	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Vinyl Chloride	ND	0.0095	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
m+p Xylene	ND	0.0038	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
o-Xylene	ND	0.0019	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF
Xylenes (total)	ND	0.0019	0.0019	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:11	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/11/24 10:11
Toluene-d8	100	70-130		11/11/24 10:11
4-Bromofluorobenzene	97.1	70-130		11/11/24 10:11

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Biphenyl	ND	0.77	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Caprolactam	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzo(a)anthracene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzo(g,h,i)perylene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Butylbenzylphthalate	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Chrysene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Dibenz(a,h)anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
3,3-Dichlorobenzidine	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4-Dimethylphenol	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4-Dinitrotoluene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Fluorene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Isophorone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
1-Methylnaphthalene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
3/4-Methylphenol	ND	0.39	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Naphthalene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Nitroaniline	ND	0.39	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Nitroaniline	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Phenanthrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Pyrene	ND	0.19	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
Pyridine	ND	0.39	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 15:14	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:14	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.9	30-130		11/14/24 15:14
Phenol-d6	61.7	30-130		11/14/24 15:14
Nitrobenzene-d5	60.4	30-130		11/14/24 15:14
2-Fluorobiphenyl	62.0	30-130		11/14/24 15:14
2,4,6-Tribromophenol	67.8	30-130		11/14/24 15:14
p-Terphenyl-d14	71.7	30-130		11/14/24 15:14

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 15:28	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	40.1	15-110		11/15/24 15:28

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1	S-29	Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:20	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	55.5		8-130		12/10/24 23:20
13C5-PFPeA	49.0		35-130		12/10/24 23:20
13C5-PFHxA	46.6		40-130		12/10/24 23:20
13C4-PFHpA	41.6		40-130		12/10/24 23:20
13C8-PFOA	45.4		40-130		12/10/24 23:20
13C9-PFNA	**39.8**	*	40-130	S-29	12/10/24 23:20
13C6-PFDA	**39.9**	*	40-130	S-29	12/10/24 23:20
13C7-PFUnA	**36.8**	*	40-130	S-29	12/10/24 23:20
13C2-PFDoA	**34.5**	*	40-130	S-29	12/10/24 23:20
13C2-PFTeDA	28.0		20-130		12/10/24 23:20
13C3-PFBS	**39.0**	*	40-135	S-29	12/10/24 23:20
13C3-PFHxS	**37.5**	*	40-130	S-29	12/10/24 23:20
13C8-PFOS	**38.9**	*	40-130	S-29	12/10/24 23:20
13C2-4:2FTS	45.9		40-165		12/10/24 23:20
13C2-6:2FTS	42.1		40-215		12/10/24 23:20
13C2-8:2FTS	**32.6**	*	40-275	S-29	12/10/24 23:20
13C8-PFOSA	51.5		40-130		12/10/24 23:20
D3-NMeFOSA	38.8		10-130		12/10/24 23:20
D5-NEtFOSA	36.9		10-130		12/10/24 23:20
D3-NMeFOSAA	42.5		40-135		12/10/24 23:20
D5-NEtFOSAA	42.4		40-150		12/10/24 23:20
D7-NMeFOSE	44.9		20-130		12/10/24 23:20
D9-NEtFOSE	39.7		15-130		12/10/24 23:20
13C3-HFPO-DA	57.2		40-130		12/10/24 23:20

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
gamma-Chlordane [1]	ND	0.0056	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Aldrin [1]	ND	0.0056	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
alpha-BHC [1]	ND	0.0056	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
beta-BHC [1]	ND	0.0056	0.0030	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
delta-BHC [1]	ND	0.0056	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
4,4'-DDD [1]	ND	0.0045	0.00095	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
4,4'-DDE [1]	ND	0.0045	0.00049	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
4,4'-DDT [1]	ND	0.0045	0.00057	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Dieldrin [1]	ND	0.0045	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Endosulfan I [1]	ND	0.0056	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Endosulfan II [1]	ND	0.0089	0.0024	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Endosulfan sulfate [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Endrin [1]	ND	0.0089	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Endrin aldehyde [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 2:34	TG
Endrin ketone [1]	ND	0.0089	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Heptachlor [1]	ND	0.0056	0.00061	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Heptachlor epoxide [1]	ND	0.0056	0.00065	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Methoxychlor [1]	ND	0.056	0.0066	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		11/20/24 20:27
Decachlorobiphenyl [1]	99.3	30-150		11/21/24 2:34
Decachlorobiphenyl [2]	88.1	30-150		11/20/24 20:27
Decachlorobiphenyl [2]	97.3	30-150		11/21/24 2:34
Tetrachloro-m-xylene [1]	70.1	30-150		11/20/24 20:27
Tetrachloro-m-xylene [1]	75.5	30-150		11/21/24 2:34
Tetrachloro-m-xylene [2]	73.1	30-150		11/20/24 20:27
Tetrachloro-m-xylene [2]	79.1	30-150		11/21/24 2:34

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1221 [1]	ND	0.089	0.041	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1232 [1]	ND	0.089	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1242 [1]	ND	0.089	0.025	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1248 [1]	ND	0.089	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1254 [1]	ND	0.089	0.027	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1260 [1]	ND	0.089	0.019	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1262 [1]	ND	0.089	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW
Aroclor-1268 [1]	ND	0.089	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 19:48	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.3	30-150		11/14/24 19:48
Decachlorobiphenyl [2]	84.7	30-150		11/14/24 19:48
Tetrachloro-m-xylene [1]	65.1	30-150		11/14/24 19:48
Tetrachloro-m-xylene [2]	71.5	30-150		11/14/24 19:48

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2600	17	5.3	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Antimony	ND	1.7	0.45	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Arsenic	1.0	3.4	0.48	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Barium	26	1.7	0.36	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Beryllium	0.18	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Cadmium	0.19	0.34	0.16	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Calcium	940	17	8.8	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Chromium	5.2	0.68	0.43	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Cobalt	2.7	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Copper	16	1.4	1.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:45	MJH
Iron	6500	17	7.8	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Lead	2.4	0.51	0.36	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:45	MJH
Magnesium	1500	17	3.9	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Manganese	160	0.34	0.19	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Mercury	ND	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:24	MJH
Nickel	5.4	0.68	0.47	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Potassium	420	170	42	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Selenium	ND	3.4	0.84	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Sodium	120	170	50	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Thallium	ND	1.7	0.54	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:45	MJH
Vanadium	15	0.68	0.37	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:44	MJH
Zinc	14	0.68	0.59	mg/Kg dry	1	B-07, B	SW-846 6010D	11/8/24	11/14/24 5:45	MJH

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46 Sampled: 11/5/2024 14:40

Sample ID: 24K0481-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8			% Wt	1		SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.56	0.42	mg/Kg dry	1		SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0042	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00098	0.00091	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Benzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Bromochloromethane	ND	0.0020	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Bromodichloromethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Bromoform	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
2-Butanone (MEK)	ND	0.039	0.0083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Butyl Alcohol (TBA)	ND	0.098	0.040	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
sec-Butylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00098	0.00085	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Carbon Disulfide	ND	0.020	0.0099	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Chlorobenzene	ND	0.0020	0.00047	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Chlorodibromomethane	ND	0.00098	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Chloroform	ND	0.0039	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Chloromethane	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Cyclohexane	ND	0.0098	0.0040	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1-Dichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2-Dichloroethane	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1-Dichloroethylene	ND	0.0039	0.00094	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2-Dichloropropane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Diisopropyl Ether (DIPE)	ND	0.00098	0.00080	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Ethanol	ND	0.20	0.039	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Ethylbenzene	ND	0.0020	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
2-Hexanone (MBK)	ND	0.020	0.0067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Methyl Cyclohexane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Methylene Chloride	ND	0.020	0.00092	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Naphthalene	ND	0.0039	0.00097	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 10:36	MFF
n-Propylbenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Styrene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Tetrachloroethylene	0.0061	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Toluene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Trichloroethylene	ND	0.0020	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00094	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Vinyl Chloride	ND	0.0098	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
m+p Xylene	ND	0.0039	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
o-Xylene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 10:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.8	70-130		11/11/24 10:36
Toluene-d8	100	70-130		11/11/24 10:36
4-Bromofluorobenzene	99.6	70-130		11/11/24 10:36

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Atrazine	ND	0.78	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzaldehyde	ND	0.39	0.063	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Biphenyl	ND	0.78	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Caprolactam	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Acenaphthene	ND	0.20	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Acenaphthylene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Anthracene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzo(a)anthracene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzo(a)pyrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzo(b)fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzo(g,h,i)perylene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Benzo(k)fluoranthene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Chloroaniline	ND	0.76	0.070	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Chlorophenylphenylether	ND	0.39	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Chrysene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
3,3-Dichlorobenzidine	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4-Dimethylphenol	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Di-n-octylphthalate	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Fluorene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Methylphenol	ND	0.39	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
3-Nitroaniline	ND	0.39	0.082	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Nitrobenzene	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Phenol	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Pyrene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
Pyridine	ND	0.39	0.046	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 15:34	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:34	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	56.9	30-130		11/14/24 15:34
Phenol-d6	61.5	30-130		11/14/24 15:34
Nitrobenzene-d5	58.4	30-130		11/14/24 15:34
2-Fluorobiphenyl	60.3	30-130		11/14/24 15:34
2,4,6-Tribromophenol	69.2	30-130		11/14/24 15:34
p-Terphenyl-d14	72.3	30-130		11/14/24 15:34

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 15:49	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	38.8	15-110					11/15/24 15:49	

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:29	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	58.1	8-130		12/10/24 23:29
13C5-PFPeA	60.4	35-130		12/10/24 23:29
13C5-PFHxA	55.3	40-130		12/10/24 23:29
13C4-PFHpA	51.7	40-130		12/10/24 23:29
13C8-PFOA	53.7	40-130		12/10/24 23:29
13C9-PFNA	49.6	40-130		12/10/24 23:29
13C6-PFDA	48.8	40-130		12/10/24 23:29
13C7-PFUnA	48.0	40-130		12/10/24 23:29
13C2-PFDoA	46.8	40-130		12/10/24 23:29
13C2-PFTeDA	38.6	20-130		12/10/24 23:29
13C3-PFBS	51.1	40-135		12/10/24 23:29
13C3-PFHxS	48.4	40-130		12/10/24 23:29
13C8-PFOS	50.4	40-130		12/10/24 23:29
13C2-4:2FTS	61.1	40-165		12/10/24 23:29
13C2-6:2FTS	50.8	40-215		12/10/24 23:29
13C2-8:2FTS	46.1	40-275		12/10/24 23:29
13C8-PFOSA	68.6	40-130		12/10/24 23:29
D3-NMeFOSA	50.1	10-130		12/10/24 23:29
D5-NEtFOSA	49.2	10-130		12/10/24 23:29
D3-NMeFOSAA	55.6	40-135		12/10/24 23:29
D5-NEtFOSAA	55.3	40-150		12/10/24 23:29
D7-NMeFOSE	58.5	20-130		12/10/24 23:29
D9-NEtFOSE	52.5	15-130		12/10/24 23:29
13C3-HFPO-DA	67.6	40-130		12/10/24 23:29

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
gamma-Chlordane [1]	ND	0.0054	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Aldrin [1]	ND	0.0054	0.00053	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
alpha-BHC [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
beta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
delta-BHC [1]	ND	0.0054	0.0029	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
4,4'-DDD [1]	ND	0.0043	0.00092	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
4,4'-DDE [1]	ND	0.0043	0.00048	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
4,4'-DDT [1]	ND	0.0043	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Dieldrin [1]	ND	0.0043	0.00051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Endosulfan I [1]	ND	0.0054	0.0026	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Endosulfan II [1]	ND	0.0086	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Endosulfan sulfate [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Endrin [1]	ND	0.0086	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Endrin aldehyde [1]	ND	0.0086	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 2:46	TG
Endrin ketone [1]	ND	0.0086	0.0022	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Heptachlor [1]	ND	0.0054	0.00059	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Heptachlor epoxide [1]	ND	0.0054	0.00063	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Methoxychlor [1]	ND	0.054	0.0064	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG
Toxaphene [1]	ND	0.11	0.045	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.7	30-150		11/20/24 20:39
Decachlorobiphenyl [1]	124	30-150		11/21/24 2:46
Decachlorobiphenyl [2]	98.7	30-150		11/20/24 20:39
Decachlorobiphenyl [2]	122	30-150		11/21/24 2:46
Tetrachloro-m-xylene [1]	81.0	30-150		11/20/24 20:39
Tetrachloro-m-xylene [1]	99.1	30-150		11/21/24 2:46
Tetrachloro-m-xylene [2]	84.2	30-150		11/20/24 20:39
Tetrachloro-m-xylene [2]	103	30-150		11/21/24 2:46

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1221 [1]	ND	0.086	0.040	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1232 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1242 [1]	ND	0.086	0.024	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1248 [1]	ND	0.086	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1254 [1]	ND	0.086	0.026	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1260 [1]	ND	0.086	0.018	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1262 [1]	ND	0.086	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW
Aroclor-1268 [1]	ND	0.086	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:05	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.6	30-150		11/14/24 20:05
Decachlorobiphenyl [2]	97.7	30-150		11/14/24 20:05
Tetrachloro-m-xylene [1]	77.3	30-150		11/14/24 20:05
Tetrachloro-m-xylene [2]	84.1	30-150		11/14/24 20:05

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2500	17	5.3	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Antimony	ND	1.7	0.45	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Arsenic	1.2	3.4	0.47	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Barium	26	1.7	0.36	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Beryllium	0.19	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Cadmium	0.19	0.34	0.16	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Calcium	910	17	8.7	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Chromium	5.4	0.67	0.42	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Cobalt	2.5	1.7	0.28	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Copper	14	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:52	MJH
Iron	6200	17	7.8	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Lead	2.7	0.50	0.35	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:52	MJH
Magnesium	1400	17	3.9	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Manganese	170	0.34	0.19	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Mercury	ND	0.029	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/26/24 0:26	MJH
Nickel	5.5	0.67	0.46	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Potassium	450	170	41	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Selenium	ND	3.4	0.83	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Sodium	140	170	50	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Thallium	ND	1.7	0.54	mg/Kg dry	1		SW-846 6010D	11/8/24	11/14/24 5:52	MJH
Vanadium	14	0.67	0.37	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:51	MJH
Zinc	14	0.67	0.59	mg/Kg dry	1	B-07, B	SW-846 6010D	11/8/24	11/14/24 5:52	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-04-Z45-46Q Sampled: 11/5/2024 14:50

Sample ID: 24K0481-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0			% Wt	1		SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.54	0.41	mg/Kg dry	1		SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.086	0.044	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0037	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	0.00080	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Benzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Bromochloromethane	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Bromodichloromethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Bromoform	ND	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Bromomethane	ND	0.0086	0.0015	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
2-Butanone (MEK)	ND	0.034	0.0072	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Butyl Alcohol (TBA)	ND	0.086	0.035	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
n-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
sec-Butylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	0.00074	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Carbon Disulfide	ND	0.017	0.0086	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Carbon Tetrachloride	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Chlorobenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Chlorodibromomethane	ND	0.00086	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Chloroform	ND	0.0034	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Chloromethane	ND	0.0086	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Cyclohexane	ND	0.0086	0.0035	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1-Dichloroethane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2-Dichloroethane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1-Dichloroethylene	ND	0.0034	0.00082	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2-Dichloropropane	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
cis-1,3-Dichloropropene	ND	0.00086	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
trans-1,3-Dichloropropene	ND	0.00086	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Ethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
2-Hexanone (MBK)	ND	0.017	0.0059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Methyl Cyclohexane	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Methylene Chloride	ND	0.017	0.00080	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Naphthalene	ND	0.0034	0.00085	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 11:01	MFF
n-Propylbenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Styrene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00086	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Tetrachloroethylene	0.0052	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Toluene	0.00055	0.0017	0.00051	mg/Kg dry	1	J	SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Trichloroethylene	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	0.0010	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0086	0.00090	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00083	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Vinyl Chloride	ND	0.0086	0.00067	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
o-Xylene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 11:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.0	70-130		11/11/24 11:01
Toluene-d8	101	70-130		11/11/24 11:01
4-Bromofluorobenzene	99.3	70-130		11/11/24 11:01

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Biphenyl	ND	0.77	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Caprolactam	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzo(a)anthracene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzo(g,h,i)perylene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Butylbenzylphthalate	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Chrysene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Dibenz(a,h)anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
3,3-Dichlorobenzidine	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4-Dimethylphenol	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4-Dinitrotoluene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Fluorene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Isophorone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
1-Methylnaphthalene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
3/4-Methylphenol	ND	0.39	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Naphthalene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Nitroaniline	ND	0.39	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Nitroaniline	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.054	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Phenanthrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Pyrene	ND	0.19	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
Pyridine	ND	0.39	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 15:55	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 15:55	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.9	30-130		11/14/24 15:55
Phenol-d6	51.0	30-130		11/14/24 15:55
Nitrobenzene-d5	48.9	30-130		11/14/24 15:55
2-Fluorobiphenyl	52.8	30-130		11/14/24 15:55
2,4,6-Tribromophenol	60.6	30-130		11/14/24 15:55
p-Terphenyl-d14	62.4	30-130		11/14/24 15:55

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 16:10	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	43.8	15-110					11/15/24 16:10

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:38	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	88.2	8-130		12/10/24 23:38
13C5-PFPeA	88.4	35-130		12/10/24 23:38
13C5-PFHxA	88.8	40-130		12/10/24 23:38
13C4-PFHpA	87.4	40-130		12/10/24 23:38
13C8-PFOA	94.4	40-130		12/10/24 23:38
13C9-PFNA	91.5	40-130		12/10/24 23:38
13C6-PFDA	98.1	40-130		12/10/24 23:38
13C7-PFUnA	93.6	40-130		12/10/24 23:38
13C2-PFDoA	92.5	40-130		12/10/24 23:38
13C2-PFTeDA	82.2	20-130		12/10/24 23:38
13C3-PFBS	89.6	40-135		12/10/24 23:38
13C3-PFHxS	89.0	40-130		12/10/24 23:38
13C8-PFOS	95.7	40-130		12/10/24 23:38
13C2-4:2FTS	101	40-165		12/10/24 23:38
13C2-6:2FTS	90.9	40-215		12/10/24 23:38
13C2-8:2FTS	80.5	40-275		12/10/24 23:38
13C8-PFOSA	96.2	40-130		12/10/24 23:38
D3-NMeFOSA	82.0	10-130		12/10/24 23:38
D5-NEtFOSA	85.8	10-130		12/10/24 23:38
D3-NMeFOSAA	105	40-135		12/10/24 23:38
D5-NEtFOSAA	116	40-150		12/10/24 23:38
D7-NMeFOSE	87.4	20-130		12/10/24 23:38
D9-NEtFOSE	87.2	15-130		12/10/24 23:38
13C3-HFPO-DA	94.8	40-130		12/10/24 23:38

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
gamma-Chlordane [1]	ND	0.0053	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Aldrin [1]	ND	0.0053	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
alpha-BHC [1]	ND	0.0053	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
beta-BHC [1]	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
delta-BHC [1]	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
4,4'-DDD [1]	ND	0.0042	0.00090	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
4,4'-DDE [1]	ND	0.0042	0.00047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
4,4'-DDT [1]	ND	0.0042	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Dieldrin [1]	ND	0.0042	0.00051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Endosulfan I [1]	ND	0.0053	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Endosulfan II [1]	ND	0.0085	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Endosulfan sulfate [1]	ND	0.0085	0.0020	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Endrin [1]	ND	0.0085	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Endrin aldehyde [1]	ND	0.0085	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/21/24 2:58	TG
Endrin ketone [1]	ND	0.0085	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Heptachlor [1]	ND	0.0053	0.00058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Heptachlor epoxide [1]	ND	0.0053	0.00062	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Methoxychlor [1]	ND	0.053	0.0063	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG
Toxaphene [1]	ND	0.11	0.044	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 20:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		11/20/24 20:51
Decachlorobiphenyl [1]	99.0	30-150		11/21/24 2:58
Decachlorobiphenyl [2]	97.1	30-150		11/20/24 20:51
Decachlorobiphenyl [2]	98.1	30-150		11/21/24 2:58
Tetrachloro-m-xylene [1]	77.0	30-150		11/20/24 20:51
Tetrachloro-m-xylene [1]	78.5	30-150		11/21/24 2:58
Tetrachloro-m-xylene [2]	80.2	30-150		11/20/24 20:51
Tetrachloro-m-xylene [2]	81.8	30-150		11/21/24 2:58

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1221 [1]	ND	0.085	0.039	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1232 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1242 [1]	ND	0.085	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1248 [1]	ND	0.085	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1254 [1]	ND	0.085	0.025	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1260 [1]	ND	0.085	0.018	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1262 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW
Aroclor-1268 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:22	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		11/14/24 20:22
Decachlorobiphenyl [2]	94.7	30-150		11/14/24 20:22
Tetrachloro-m-xylene [1]	72.1	30-150		11/14/24 20:22
Tetrachloro-m-xylene [2]	77.1	30-150		11/14/24 20:22

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5900	17	5.3	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN
Antimony	ND	1.7	0.45	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN
Arsenic	2.4	3.3	0.47	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Barium	41	1.7	0.36	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Beryllium	0.36	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Cadmium	ND	0.33	0.16	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Calcium	1600	170	87	mg/Kg dry	10		SW-846 6010D	11/8/24	11/19/24 14:13	MJH
Chromium	13	0.67	0.42	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Cobalt	5.4	1.7	0.28	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Copper	13	1.3	1.2	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Iron	12000	170	77	mg/Kg dry	10		SW-846 6010D	11/8/24	11/19/24 14:13	MJH
Lead	4.7	0.50	0.35	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Magnesium	2800	17	3.9	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN
Manganese	270	0.33	0.19	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Mercury	ND	0.029	0.013	mg/Kg dry	1		SW-846 7471B	12/3/24	12/4/24 12:16	AAJ
Nickel	20	0.67	0.46	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Potassium	1500	170	41	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Selenium	ND	3.3	0.83	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Silver	ND	0.33	0.21	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Sodium	380	170	50	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN
Thallium	ND	1.7	0.53	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 16:06	HNN
Vanadium	17	0.67	0.37	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN
Zinc	24	0.67	0.59	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 14:02	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z12-13 Sampled: 11/6/2024 14:10

Sample ID: 24K0481-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9			% Wt	1	H-06	SM 2540G	11/15/24	11/15/24 15:56	MLR
Cyanide	ND	0.56	0.42	mg/Kg dry	1		SW-846 9014	11/18/24	11/18/24 14:10	DET

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	0.042	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	0.00075	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Benzene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Bromochloromethane	ND	0.0016	0.00069	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Bromodichloromethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Bromoform	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Bromomethane	ND	0.0081	0.0014	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
2-Butanone (MEK)	ND	0.032	0.0068	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Butyl Alcohol (TBA)	ND	0.081	0.033	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
n-Butylbenzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
sec-Butylbenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Butylbenzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Carbon Disulfide	ND	0.016	0.0081	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Carbon Tetrachloride	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Chlorobenzene	ND	0.0016	0.00039	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Chlorodibromomethane	ND	0.00081	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Chloroform	ND	0.0032	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Chloromethane	ND	0.0081	0.00098	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Cyclohexane	ND	0.0081	0.0033	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	0.00059	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1-Dichloroethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2-Dichloroethane	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1-Dichloroethylene	ND	0.0032	0.00077	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2-Dichloropropane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
cis-1,3-Dichloropropene	ND	0.00081	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
trans-1,3-Dichloropropene	ND	0.00081	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	0.00066	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Ethanol	ND	0.16	0.032	mg/Kg dry	1	MS-07A, V-05	SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Ethylbenzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
2-Hexanone (MBK)	ND	0.016	0.0055	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	0.00071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Methyl Cyclohexane	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Methylene Chloride	ND	0.016	0.00076	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0071	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Naphthalene	ND	0.0032	0.00080	mg/Kg dry	1	V-05	SW-846 8260D	11/11/24	11/11/24 7:12	MFF
n-Propylbenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Styrene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	0.00062	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Tetrachloroethylene	0.0060	0.0016	0.00070	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Toluene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Trichloroethylene	ND	0.0016	0.00061	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	0.00095	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0081	0.00084	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00078	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Vinyl Chloride	ND	0.0081	0.00063	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
m+p Xylene	ND	0.0032	0.0012	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
o-Xylene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	11/11/24	11/11/24 7:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/11/24 7:12
Toluene-d8	99.8	70-130		11/11/24 7:12
4-Bromofluorobenzene	98.4	70-130		11/11/24 7:12

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.74	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Atrazine	ND	0.74	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Biphenyl	ND	0.74	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Caprolactam	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Aniline	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzo(a)anthracene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzo(g,h,i)perylene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Chloroaniline	ND	0.72	0.066	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Chloronaphthalene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Chrysene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Dibenz(a,h)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
3,3-Dichlorobenzidine	ND	0.19	0.080	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4-Dimethylphenol	ND	0.37	0.086	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4-Dinitrophenol	ND	0.72	0.29	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4-Dinitrotoluene	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Di-n-octylphthalate	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Fluorene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1	L-04, V-05	SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Isophorone	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
1-Methylnaphthalene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Methylphenol	ND	0.37	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Naphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1	V-05	SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/11/24	11/14/24 13:08	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	11/11/24	11/14/24 13:08	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.3	30-130		11/14/24 13:08
Phenol-d6	56.2	30-130		11/14/24 13:08
Nitrobenzene-d5	55.4	30-130		11/14/24 13:08
2-Fluorobiphenyl	55.6	30-130		11/14/24 13:08
2,4,6-Tribromophenol	62.1	30-130		11/14/24 13:08
p-Terphenyl-d14	67.6	30-130		11/14/24 13:08

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.053	0.041	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 16:31	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	38.1	15-110			11/15/24 16:31

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.066	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.059	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.056	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.090	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/2/24	12/10/24 23:47	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	82.9	8-130		12/10/24 23:47
13C5-PFPeA	87.9	35-130		12/10/24 23:47
13C5-PFHxA	88.9	40-130		12/10/24 23:47
13C4-PFHpA	82.1	40-130		12/10/24 23:47
13C8-PFOA	85.5	40-130		12/10/24 23:47
13C9-PFNA	87.2	40-130		12/10/24 23:47
13C6-PFDA	89.8	40-130		12/10/24 23:47
13C7-PFUnA	87.5	40-130		12/10/24 23:47
13C2-PFDoA	79.4	40-130		12/10/24 23:47
13C2-PFTeDA	71.3	20-130		12/10/24 23:47
13C3-PFBS	85.6	40-135		12/10/24 23:47
13C3-PFHxS	80.7	40-130		12/10/24 23:47
13C8-PFOS	84.6	40-130		12/10/24 23:47
13C2-4:2FTS	92.7	40-165		12/10/24 23:47
13C2-6:2FTS	82.5	40-215		12/10/24 23:47
13C2-8:2FTS	72.5	40-275		12/10/24 23:47
13C8-PFOSA	94.7	40-130		12/10/24 23:47
D3-NMeFOSA	75.6	10-130		12/10/24 23:47
D5-NEtFOSA	76.4	10-130		12/10/24 23:47
D3-NMeFOSAA	96.3	40-135		12/10/24 23:47
D5-NEtFOSAA	104	40-150		12/10/24 23:47
D7-NMeFOSE	83.5	20-130		12/10/24 23:47
D9-NEtFOSE	78.5	15-130		12/10/24 23:47
13C3-HFPO-DA	94.4	40-130		12/10/24 23:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.0025	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
gamma-Chlordane [1]	ND	0.0053	0.0023	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Aldrin [1]	ND	0.0053	0.00052	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
alpha-BHC [1]	ND	0.0053	0.0025	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/20/24 21:03	TG
beta-BHC [1]	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
delta-BHC [1]	ND	0.0053	0.0028	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/20/24 21:03	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00074	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/20/24 21:03	TG
4,4'-DDD [1]	ND	0.0043	0.00090	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
4,4'-DDE [1]	ND	0.0043	0.00047	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
4,4'-DDT [1]	ND	0.0043	0.00055	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Dieldrin [1]	ND	0.0043	0.00051	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Endosulfan I [1]	ND	0.0053	0.0026	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/20/24 21:03	TG
Endosulfan II [1]	ND	0.0085	0.0023	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/20/24 21:03	TG
Endosulfan sulfate [1]	ND	0.0085	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Endrin [1]	ND	0.0085	0.0027	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Endrin aldehyde [1]	ND	0.0085	0.0021	mg/Kg dry	1	R-06	SW-846 8081B	11/13/24	11/21/24 3:10	TG
Endrin ketone [1]	ND	0.0085	0.0021	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Heptachlor [1]	ND	0.0053	0.00058	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Heptachlor epoxide [1]	ND	0.0053	0.00062	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Methoxychlor [1]	ND	0.053	0.0063	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG
Toxaphene [1]	ND	0.11	0.044	mg/Kg dry	1		SW-846 8081B	11/13/24	11/20/24 21:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		11/21/24 3:10
Decachlorobiphenyl [1]	92.3	30-150		11/20/24 21:03
Decachlorobiphenyl [2]	108	30-150		11/21/24 3:10
Decachlorobiphenyl [2]	92.9	30-150		11/20/24 21:03
Tetrachloro-m-xylene [1]	74.8	30-150		11/20/24 21:03
Tetrachloro-m-xylene [1]	87.5	30-150		11/21/24 3:10
Tetrachloro-m-xylene [2]	78.2	30-150		11/20/24 21:03
Tetrachloro-m-xylene [2]	91.6	30-150		11/21/24 3:10

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1221 [1]	ND	0.082	0.038	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1232 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1242 [1]	ND	0.082	0.023	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1248 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1254 [1]	ND	0.082	0.024	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1260 [1]	ND	0.082	0.017	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1262 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW
Aroclor-1268 [1]	ND	0.082	0.022	mg/Kg dry	4		SW-846 8082A	11/13/24	11/14/24 20:39	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		11/14/24 20:39
Decachlorobiphenyl [2]	92.6	30-150		11/14/24 20:39
Tetrachloro-m-xylene [1]	73.5	30-150		11/14/24 20:39
Tetrachloro-m-xylene [2]	79.3	30-150		11/14/24 20:39

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5600	18	5.7	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 13:09	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1	MS-07A	SW-846 6010D	11/8/24	11/12/24 13:09	HNN
Arsenic	2.6	3.6	0.51	mg/Kg dry	1	J	SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Barium	45	1.8	0.39	mg/Kg dry	1	MS-07	SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Beryllium	0.36	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Cadmium	ND	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Calcium	9100	18	9.4	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Chromium	14	0.73	0.46	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Cobalt	4.2	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Copper	13	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Iron	11000	180	84	mg/Kg dry	10	MS-19	SW-846 6010D	11/8/24	11/19/24 13:26	MJH
Lead	4.9	0.55	0.38	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Magnesium	3200	18	4.2	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/12/24 13:09	HNN
Manganese	260	0.36	0.21	mg/Kg dry	1	MS-19	SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Mercury	ND	0.027	0.012	mg/Kg dry	1		SW-846 7471B	12/3/24	12/4/24 12:17	AAJ
Nickel	9.2	0.73	0.50	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Potassium	1200	180	45	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Sodium	330	180	53	mg/Kg dry	1		SW-846 6010D	11/13/24	11/14/24 21:49	MJH
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/8/24	11/9/24 15:07	HNN
Vanadium	18	0.73	0.40	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 13:09	HNN
Zinc	21	0.73	0.64	mg/Kg dry	1		SW-846 6010D	11/8/24	11/12/24 13:09	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: CLMW-01-Z37-38 Sampled: 11/6/2024 15:00

Sample ID: 24K0481-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8			% Wt	1	H-06	SM 2540G	11/15/24	11/15/24 15:56	MLR
Cyanide	ND	0.54	0.40	mg/Kg dry	1		SW-846 9014	11/18/24	11/18/24 14:10	DET

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1	R-05	SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	R-05	SW-846 8260D	11/13/24	11/14/24 22:19	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	L-04	SW-846 8260D	11/13/24	11/14/24 22:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1	R-05	SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/13/24	11/14/24 22:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.7	70-130		11/14/24 22:19
Toluene-d8	91.1	70-130		11/14/24 22:19
4-Bromofluorobenzene	103	70-130		11/14/24 22:19

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.5	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzaldehyde	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Biphenyl	ND	19	0.89	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Caprolactam	ND	9.7	0.70	µg/L	1	L-04	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Acenaphthene	ND	4.9	0.76	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Acenaphthylene	ND	4.9	0.62	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Acetophenone	ND	9.7	0.49	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Aniline	ND	19	8.7	µg/L	1	V-05	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Anthracene	ND	4.9	0.53	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzo(a)anthracene	ND	4.9	0.37	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzo(a)pyrene	ND	4.9	0.42	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzo(b)fluoranthene	ND	4.9	0.31	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzo(g,h,i)perylene	ND	4.9	0.51	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Benzo(k)fluoranthene	ND	4.9	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Bis(2-chloroethoxy)methane	ND	9.7	0.56	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Bis(2-chloroethyl)ether	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.7	0.73	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.7	0.31	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Bromophenylphenylether	ND	9.7	0.69	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Butylbenzylphthalate	ND	9.7	0.38	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Carbazole	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Chloroaniline	ND	9.7	5.0	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Chloro-3-methylphenol	ND	9.7	0.61	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Chloronaphthalene	ND	9.7	0.79	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Chlorophenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Chlorophenylphenylether	ND	9.7	0.85	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Chrysene	ND	4.9	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Dibenz(a,h)anthracene	ND	4.9	0.46	µg/L	1	V-04	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Dibenzofuran	ND	4.9	0.83	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Di-n-butylphthalate	ND	9.7	0.49	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
3,3-Dichlorobenzidine	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4-Dichlorophenol	ND	9.7	0.45	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Diethylphthalate	ND	9.7	0.54	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4-Dimethylphenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Dimethylphthalate	ND	9.7	0.42	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4-Dinitrophenol	ND	9.7	1.3	µg/L	1	V-04, V-05	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4-Dinitrotoluene	ND	9.7	0.34	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,6-Dinitrotoluene	ND	9.7	0.53	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Di-n-octylphthalate	ND	9.7	0.32	µg/L	1	V-04	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Fluoranthene	ND	4.9	0.55	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Fluorene	ND	4.9	0.74	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Hexachlorobenzene	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Hexachlorocyclopentadiene	ND	9.7	2.8	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Hexachloroethane	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Indeno(1,2,3-cd)pyrene	ND	4.9	0.46	µg/L	1	V-04	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Isophorone	ND	9.7	0.53	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
1-Methylnaphthalene	ND	4.9	0.95	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Methylnaphthalene	ND	4.9	0.91	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Methylphenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
3/4-Methylphenol	ND	9.7	0.47	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Naphthalene	ND	4.9	0.88	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Nitroaniline	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
3-Nitroaniline	ND	9.7	0.50	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Nitroaniline	ND	9.7	0.42	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Nitrobenzene	ND	9.7	0.66	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2-Nitrophenol	ND	9.7	0.53	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
4-Nitrophenol	ND	9.7	1.2	µg/L	1	V-05	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	0.47	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
N-Nitrosodi-n-propylamine	ND	9.7	0.64	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Pentachlorophenol	ND	9.7	0.47	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Phenanthrene	ND	4.9	0.70	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Phenol	ND	9.7	0.58	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Pyrene	ND	4.9	0.45	µg/L	1	V-06	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
Pyridine	ND	19	5.0	µg/L	1	V-05, V-34	SW-846 8270E	11/12/24	11/14/24 16:12	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4,5-Trichlorophenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL
2,4,6-Trichlorophenol	ND	9.7	0.37	µg/L	1		SW-846 8270E	11/12/24	11/14/24 16:12	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.7	15-110		11/14/24 16:12
Phenol-d6	34.3	15-110		11/14/24 16:12
Nitrobenzene-d5	86.9	30-130		11/14/24 16:12
2-Fluorobiphenyl	76.3	30-130		11/14/24 16:12
2,4,6-Tribromophenol	78.1	15-110		11/14/24 16:12
p-Terphenyl-d14	100	30-130		11/14/24 16:12

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Sample Flags: SM-05

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.72	0.20	0.033	µg/L	1	B	SW-846 8270E	11/11/24	11/15/24 23:52	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	25.4	15-110		11/15/24 23:52

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.0	0.75	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.42	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorooctanoic acid (PFOA)	ND	1.5	0.39	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.58	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	1.2	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	2.8	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	3.1	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	1.4	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	0.79	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
9Cl-PF3ONS (F53B Minor)	ND	6.0	0.87	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
11Cl-PF3OUdS (F53B Major)	ND	6.0	1.6	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	2.1	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.4	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.40	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/3/24	12/6/24 21:23	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	85.8	5-130		12/6/24 21:23
13C5-PFPeA	83.9	40-130		12/6/24 21:23
13C5-PFHxA	86.1	40-130		12/6/24 21:23
13C4-PFHpA	84.8	40-130		12/6/24 21:23
13C8-PFOA	90.3	40-130		12/6/24 21:23
13C9-PFNA	77.5	40-130		12/6/24 21:23
13C6-PFDA	81.9	40-130		12/6/24 21:23
13C7-PFUnA	86.1	30-130		12/6/24 21:23
13C2-PFDoA	75.3	10-130		12/6/24 21:23
13C2-PFTeDA	78.6	10-130		12/6/24 21:23
13C3-PFBS	90.0	40-135		12/6/24 21:23
13C3-PFHxS	86.3	40-130		12/6/24 21:23
13C8-PFOS	79.5	40-130		12/6/24 21:23
13C2-4:2FTS	102	40-200		12/6/24 21:23
13C2-6:2FTS	114	40-200		12/6/24 21:23
13C2-8:2FTS	96.5	40-300		12/6/24 21:23
13C8-PFOSA	74.1	40-130		12/6/24 21:23
D3-NMeFOSA	51.9	10-130		12/6/24 21:23
D5-NEtFOSA	52.8	10-130		12/6/24 21:23
D3-NMeFOSAA	93.6	40-170		12/6/24 21:23
D5-NEtFOSAA	96.0	25-135		12/6/24 21:23
D7-NMeFOSE	69.3	10-130		12/6/24 21:23
D9-NEtFOSE	70.0	10-130		12/6/24 21:23
13C3-HFPO-DA	86.8	40-130		12/6/24 21:23

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.050	0.016	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
gamma-Chlordane [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Aldrin [1]	ND	0.050	0.0036	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
alpha-BHC [1]	ND	0.050	0.022	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
beta-BHC [1]	ND	0.050	0.021	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
delta-BHC [1]	ND	0.050	0.019	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.0042	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
4,4'-DDD [1]	ND	0.040	0.0044	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
4,4'-DDE [1]	ND	0.040	0.0030	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
4,4'-DDT [1]	ND	0.040	0.0044	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Dieldrin [1]	ND	0.0020	0.0014	µg/L	1	R-05	SW-846 8081B	11/12/24	11/13/24 17:05	TG
Endosulfan I [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Endosulfan II [1]	ND	0.080	0.015	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Endosulfan sulfate [1]	ND	0.080	0.016	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Endrin [1]	ND	0.080	0.019	µg/L	1	R-05	SW-846 8081B	11/12/24	11/13/24 17:05	TG
Endrin aldehyde [1]	ND	0.080	0.022	µg/L	1		SW-846 8081B	11/12/24	11/13/24 20:29	TG
Endrin ketone [1]	ND	0.080	0.016	µg/L	1	R-05	SW-846 8081B	11/12/24	11/13/24 17:05	TG
Heptachlor [1]	ND	0.050	0.0044	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Heptachlor epoxide [1]	ND	0.050	0.0037	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Methoxychlor [1]	ND	0.50	0.069	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG
Toxaphene [1]	ND	1.0	0.40	µg/L	1		SW-846 8081B	11/12/24	11/13/24 17:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.3	30-150		11/13/24 17:05
Decachlorobiphenyl [1]	84.2	30-150		11/13/24 20:29
Decachlorobiphenyl [2]	79.7	30-150		11/13/24 17:05
Decachlorobiphenyl [2]	80.5	30-150		11/13/24 20:29
Tetrachloro-m-xylene [1]	52.7	30-150		11/13/24 20:29
Tetrachloro-m-xylene [1]	53.0	30-150		11/13/24 17:05
Tetrachloro-m-xylene [2]	56.2	30-150		11/13/24 17:05
Tetrachloro-m-xylene [2]	55.6	30-150		11/13/24 20:29

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1221 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1232 [1]	ND	0.20	0.094	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1248 [1]	ND	0.20	0.094	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1254 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1260 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1262 [1]	ND	0.20	0.083	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW
Aroclor-1268 [1]	ND	0.20	0.076	µg/L	1		SW-846 8082A	11/12/24	11/14/24 4:53	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.0	30-150		11/14/24 4:53
Decachlorobiphenyl [2]	77.4	30-150		11/14/24 4:53
Tetrachloro-m-xylene [1]	50.5	30-150		11/14/24 4:53
Tetrachloro-m-xylene [2]	50.0	30-150		11/14/24 4:53

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Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.025	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Barium	ND	0.050	0.0098	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/11/24	11/19/24 11:53	HNN
Calcium	ND	0.50	0.21	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/11/24	11/14/24 6:02	NC
Iron	ND	0.050	0.036	mg/L	1		SW-846 6010D	11/11/24	11/14/24 6:02	NC
Lead	0.0050	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Magnesium	ND	0.050	0.016	mg/L	1	B-05	SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Manganese	ND	0.010	0.0018	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/20/24	11/21/24 11:16	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/11/24	11/14/24 6:02	NC
Potassium	ND	2.0	0.47	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Sodium	ND	2.0	0.38	mg/L	1		SW-846 6010D	11/11/24	11/14/24 6:02	NC
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/11/24	11/14/24 6:02	NC
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/11/24	11/13/24 13:38	HNN
Zinc	0.0099	0.010	0.0080	mg/L	1	B, J	SW-846 6010D	11/11/24	11/13/24 13:38	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Carrol Gardens Brooklyn, NY Sample Description: Work Order: 24K0481

Date Received: 11/7/2024

Field Sample #: FB-241106 Sampled: 11/6/2024 16:00

Sample ID: 24K0481-08

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/17/24	11/18/24 10:30	DET

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B393182	5.83	4.00	12/02/24
24K0481-02 [CLMW-04-Z22-23]	B393182	5.26	4.00	12/02/24
24K0481-03 [CLMW-04-Z33-34]	B393182	5.54	4.00	12/02/24
24K0481-04 [CLMW-04-Z45-46]	B393182	5.82	4.00	12/02/24
24K0481-05 [CLMW-04-Z45-46Q]	B393182	5.91	4.00	12/02/24
24K0481-06 [CLMW-01-Z12-13]	B393182	5.83	4.00	12/02/24
24K0481-07 [CLMW-01-Z37-38]	B393182	5.64	4.00	12/02/24

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B393456	536	4.00	12/03/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0481-01 [CLMW-04-Z14-15]	B392045	11/12/24
24K0481-02 [CLMW-04-Z22-23]	B392045	11/12/24
24K0481-03 [CLMW-04-Z33-34]	B392045	11/12/24
24K0481-04 [CLMW-04-Z45-46]	B392045	11/12/24
24K0481-05 [CLMW-04-Z45-46Q]	B392045	11/12/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0481-06 [CLMW-01-Z12-13]	B392375	11/15/24
24K0481-07 [CLMW-01-Z37-38]	B392375	11/15/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-06 [CLMW-01-Z12-13]	B391774	1.72	50.0	11/08/24
24K0481-07 [CLMW-01-Z37-38]	B391774	1.51	50.0	11/08/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B391808	1.72	50.0	11/08/24
24K0481-02 [CLMW-04-Z22-23]	B391808	1.56	50.0	11/08/24
24K0481-03 [CLMW-04-Z33-34]	B391808	1.76	50.0	11/08/24
24K0481-04 [CLMW-04-Z45-46]	B391808	1.70	50.0	11/08/24
24K0481-05 [CLMW-04-Z45-46Q]	B391808	1.73	50.0	11/08/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-07RE1 [CLMW-01-Z37-38]	B392133	1.54	50.0	11/13/24

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Sample Extraction Data

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B391801	50.0	50.0	11/11/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B392686	10.0	10.0	11/20/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B393099	0.661	50.0	11/25/24
24K0481-02 [CLMW-04-Z22-23]	B393099	0.648	50.0	11/25/24
24K0481-03 [CLMW-04-Z33-34]	B393099	0.621	50.0	11/25/24
24K0481-04 [CLMW-04-Z45-46]	B393099	0.635	50.0	11/25/24
24K0481-05 [CLMW-04-Z45-46Q]	B393099	0.607	50.0	11/25/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-06 [CLMW-01-Z12-13]	B393587	0.600	50.0	12/03/24
24K0481-07 [CLMW-01-Z37-38]	B393587	0.608	50.0	12/03/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B392152	10.3	10.0	11/13/24
24K0481-01RE1 [CLMW-04-Z14-15]	B392152	10.3	10.0	11/13/24
24K0481-02 [CLMW-04-Z22-23]	B392152	10.8	10.0	11/13/24
24K0481-02RE1 [CLMW-04-Z22-23]	B392152	10.8	10.0	11/13/24
24K0481-03 [CLMW-04-Z33-34]	B392152	10.5	10.0	11/13/24
24K0481-03RE1 [CLMW-04-Z33-34]	B392152	10.5	10.0	11/13/24
24K0481-04 [CLMW-04-Z45-46]	B392152	10.3	10.0	11/13/24
24K0481-04RE1 [CLMW-04-Z45-46]	B392152	10.3	10.0	11/13/24
24K0481-05 [CLMW-04-Z45-46Q]	B392152	10.8	10.0	11/13/24
24K0481-05RE1 [CLMW-04-Z45-46Q]	B392152	10.8	10.0	11/13/24
24K0481-06 [CLMW-01-Z12-13]	B392152	10.8	10.0	11/13/24
24K0481-06RE1 [CLMW-01-Z12-13]	B392152	10.8	10.0	11/13/24
24K0481-07 [CLMW-01-Z37-38]	B392152	10.3	10.0	11/13/24
24K0481-07RE1 [CLMW-01-Z37-38]	B392152	10.3	10.0	11/13/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B391979	99.7	2.00	11/12/24
24K0481-08RE1 [FB-241106]	B391979	99.7	2.00	11/12/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B392153	10.3	10.0	11/13/24
24K0481-02 [CLMW-04-Z22-23]	B392153	10.8	10.0	11/13/24
24K0481-03 [CLMW-04-Z33-34]	B392153	10.5	10.0	11/13/24
24K0481-04 [CLMW-04-Z45-46]	B392153	10.3	10.0	11/13/24
24K0481-05 [CLMW-04-Z45-46Q]	B392153	10.8	10.0	11/13/24
24K0481-06 [CLMW-01-Z12-13]	B392153	10.8	10.0	11/13/24
24K0481-07 [CLMW-01-Z37-38]	B392153	10.8	10.0	11/13/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B391978	99.7	2.00	11/12/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B391897	6.64	10.0	11/11/24
24K0481-02 [CLMW-04-Z22-23]	B391897	5.43	10.0	11/11/24
24K0481-03 [CLMW-04-Z33-34]	B391897	6.89	10.0	11/11/24
24K0481-04 [CLMW-04-Z45-46]	B391897	6.04	10.0	11/11/24
24K0481-05 [CLMW-04-Z45-46Q]	B391897	5.93	10.0	11/11/24
24K0481-06 [CLMW-01-Z12-13]	B391897	6.71	10.0	11/11/24
24K0481-07 [CLMW-01-Z37-38]	B391897	6.84	10.0	11/11/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B392083	5	5.00	11/13/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B391939	30.2	1.00	11/11/24
24K0481-02 [CLMW-04-Z22-23]	B391939	30.2	1.00	11/11/24
24K0481-03 [CLMW-04-Z33-34]	B391939	30.2	1.00	11/11/24
24K0481-04 [CLMW-04-Z45-46]	B391939	30.2	1.00	11/11/24
24K0481-05 [CLMW-04-Z45-46Q]	B391939	30.2	1.00	11/11/24
24K0481-06 [CLMW-01-Z12-13]	B391939	30.1	1.00	11/11/24
24K0481-07 [CLMW-01-Z37-38]	B391939	30.1	1.00	11/11/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B392040	20.6	1.00	11/12/24
24K0481-02 [CLMW-04-Z22-23]	B392040	20.8	1.00	11/12/24
24K0481-03 [CLMW-04-Z33-34]	B392040	20.8	1.00	11/12/24
24K0481-04 [CLMW-04-Z45-46]	B392040	20.1	1.00	11/12/24
24K0481-05 [CLMW-04-Z45-46Q]	B392040	20.3	1.00	11/12/24
24K0481-06 [CLMW-01-Z12-13]	B392040	20.5	1.00	11/12/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-07 [CLMW-01-Z37-38]	B392040	20.9	1.00	11/12/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B391943	980	1.00	11/11/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B391980	103	1.00	11/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-01 [CLMW-04-Z14-15]	B392420	1.08	50.0	11/17/24
24K0481-02 [CLMW-04-Z22-23]	B392420	1.00	50.0	11/17/24
24K0481-03 [CLMW-04-Z33-34]	B392420	1.08	50.0	11/17/24
24K0481-04 [CLMW-04-Z45-46]	B392420	1.03	50.0	11/17/24
24K0481-05 [CLMW-04-Z45-46Q]	B392420	1.07	50.0	11/17/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0481-06 [CLMW-01-Z12-13]	B392450	1.03	50.0	11/18/24
24K0481-07 [CLMW-01-Z37-38]	B392450	1.02	50.0	11/18/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0481-08 [FB-241106]	B392421	50.0	50.0	11/17/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391897 - SW-846 5035										
Blank (B391897-BLK1)				Prepared & Analyzed: 11/11/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391897 - SW-846 5035											
Blank (B391897-BLK1)				Prepared & Analyzed: 11/11/24							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Xylenes (total)	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0497*		mg/Kg wet	0.05000		99.4	70-130				
Surrogate: Toluene-d8	*0.0502*		mg/Kg wet	0.05000		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0492*		mg/Kg wet	0.05000		98.4	70-130				
LCS (B391897-BS1)				Prepared & Analyzed: 11/11/24							
Acetone	0.195	0.10	mg/Kg wet	0.2000		97.3	70-160				†
tert-Amyl Alcohol (TAA)	0.193	0.020	mg/Kg wet	0.2000		96.7	70-130				
tert-Amyl Ethyl Ether (TAEE)	0.0201	0.0020	mg/Kg wet	0.02000		101	70-130				
tert-Amyl Methyl Ether (TAME)	0.0214	0.0010	mg/Kg wet	0.02000		107	70-130				
Benzene	0.0175	0.0020	mg/Kg wet	0.02000		87.4	70-130				
Bromochloromethane	0.0237	0.0020	mg/Kg wet	0.02000		118	70-130				
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.02000		107	70-130				
Bromoform	0.0227	0.0020	mg/Kg wet	0.02000		113	70-130				
Bromomethane	0.0232	0.010	mg/Kg wet	0.02000		116	40-130				†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.2000		99.0	70-160				†
tert-Butyl Alcohol (TBA)	0.204	0.10	mg/Kg wet	0.2000		102	40-130				†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.0	70-130				
sec-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130				
tert-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.02000		104	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0210	0.0010	mg/Kg wet	0.02000		105	70-130				
Carbon Disulfide	0.210	0.020	mg/Kg wet	0.2000		105	70-130				
Carbon Tetrachloride	0.0215	0.0020	mg/Kg wet	0.02000		107	70-130				
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
Chlorodibromomethane	0.0224	0.0010	mg/Kg wet	0.02000		112	70-130				
Chloroethane	0.0206	0.020	mg/Kg wet	0.02000		103	70-130				
Chloroform	0.0213	0.0040	mg/Kg wet	0.02000		106	70-130				
Chloromethane	0.0183	0.010	mg/Kg wet	0.02000		91.5	70-130				
Cyclohexane	0.0204	0.010	mg/Kg wet	0.02000		102	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0020	mg/Kg wet	0.02000		94.1	70-130				
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.02000		107	70-130				
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.3	70-130				
1,3-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.3	70-130				
1,4-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.6	70-130				
Dichlorodifluoromethane (Freon 12)	0.0171	0.020	mg/Kg wet	0.02000		85.5	40-160			J	†
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.02000		105	70-130				
1,2-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391897 - SW-846 5035											
LCS (B391897-BS1)				Prepared & Analyzed: 11/11/24							
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.02000		101	70-130				
cis-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
trans-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
cis-1,3-Dichloropropene	0.0220	0.0010	mg/Kg wet	0.02000		110	70-130				
trans-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.02000		108	70-130				
Diisopropyl Ether (DIPE)	0.0201	0.0010	mg/Kg wet	0.02000		101	70-130				
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.02000		104	70-130				
2-Hexanone (MBK)	0.203	0.020	mg/Kg wet	0.2000		101	70-160				†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.02000		109	70-130				
p-Isopropyltoluene (p-Cymene)	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
Methyl Acetate	0.0203	0.0020	mg/Kg wet	0.02000		102	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.02000		105	70-130				
Methyl Cyclohexane	0.0211	0.0020	mg/Kg wet	0.02000		106	70-130				
Methylene Chloride	0.0192	0.020	mg/Kg wet	0.02000		96.2	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.2000		100	70-160				†
Naphthalene	0.0158	0.0040	mg/Kg wet	0.02000		79.0	40-130			V-05	†
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.02000		105	70-130				
Styrene	0.0211	0.0020	mg/Kg wet	0.02000		105	70-130				
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.02000		104	70-130				
Tetrachloroethylene	0.0208	0.0020	mg/Kg wet	0.02000		104	70-130				
Toluene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130				
1,2,3-Trichlorobenzene	0.0165	0.0020	mg/Kg wet	0.02000		82.7	70-130				
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.02000		86.9	70-130				
1,1,1-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.02000		102	70-130				
1,1,2-Trichloroethane	0.0226	0.0020	mg/Kg wet	0.02000		113	70-130				
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
Trichlorofluoromethane (Freon 11)	0.0212	0.010	mg/Kg wet	0.02000		106	70-130				
1,2,3-Trichloropropane	0.0214	0.0020	mg/Kg wet	0.02000		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0225	0.010	mg/Kg wet	0.02000		112	70-130				
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.02000		104	70-130				
1,3,5-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.02000		108	70-130				
Vinyl Chloride	0.0185	0.010	mg/Kg wet	0.02000		92.6	40-130				†
m+p Xylene	0.0423	0.0040	mg/Kg wet	0.04000		106	70-130				
o-Xylene	0.0214	0.0020	mg/Kg wet	0.02000		107	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0473*		mg/Kg wet	0.05000		94.7	70-130				
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.6	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/Kg wet	0.05000		99.5	70-130				
LCS (B391897-BS2)				Prepared & Analyzed: 11/11/24							
Ethanol	0.125	0.20	mg/Kg wet	0.2000		62.6	40-160			V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0491*		mg/Kg wet	0.05000		98.2	70-130				
Surrogate: Toluene-d8	*0.0505*		mg/Kg wet	0.05000		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0482*		mg/Kg wet	0.05000		96.4	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391897 - SW-846 5035											
LCS Dup (B391897-BSD1)				Prepared & Analyzed: 11/11/24							
Acetone	0.194	0.10	mg/Kg wet	0.2000		97.0	70-160	0.268	25		†
tert-Amyl Alcohol (TAA)	0.176	0.020	mg/Kg wet	0.2000		87.8	70-130	9.63	25		
tert-Amyl Ethyl Ether (TAEE)	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130	6.36	25		
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.02000		106	70-130	0.656	25		
Benzene	0.0174	0.0020	mg/Kg wet	0.02000		86.9	70-130	0.574	25		
Bromochloromethane	0.0238	0.0020	mg/Kg wet	0.02000		119	70-130	0.421	25		
Bromodichloromethane	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	5.49	25		
Bromoform	0.0213	0.0020	mg/Kg wet	0.02000		107	70-130	6.00	25		
Bromomethane	0.0225	0.010	mg/Kg wet	0.02000		113	40-130	2.80	25		†
2-Butanone (MEK)	0.194	0.040	mg/Kg wet	0.2000		97.2	70-160	1.83	25		†
tert-Butyl Alcohol (TBA)	0.201	0.10	mg/Kg wet	0.2000		100	40-130	1.39	25		†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.2	70-130	0.820	25		
sec-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130	1.26	25		
tert-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-160	0.870	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0204	0.0010	mg/Kg wet	0.02000		102	70-130	3.19	25		
Carbon Disulfide	0.198	0.020	mg/Kg wet	0.2000		98.8	70-130	6.02	25		
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130	4.87	25		
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.02000		101	70-130	2.55	25		
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.02000		108	70-130	3.54	25		
Chloroethane	0.0185	0.020	mg/Kg wet	0.02000		92.6	70-130	10.6	25	J	
Chloroform	0.0207	0.0040	mg/Kg wet	0.02000		104	70-130	2.86	25		
Chloromethane	0.0180	0.010	mg/Kg wet	0.02000		90.0	70-130	1.65	25		
Cyclohexane	0.0196	0.010	mg/Kg wet	0.02000		97.8	70-130	4.11	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0172	0.0020	mg/Kg wet	0.02000		85.8	70-130	9.23	25		
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.02000		99.9	70-130	6.86	25		
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.02000		98.8	70-130	0.505	25		
1,3-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.3	70-130	1.01	25		
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.02000		96.8	70-130	1.84	25		
Dichlorodifluoromethane (Freon 12)	0.0165	0.020	mg/Kg wet	0.02000		82.4	40-160	3.69	25	J	†
1,1-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.02000		96.8	70-130	8.13	25		
1,2-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.02000		92.7	70-130	1.82	25		
1,1-Dichloroethylene	0.0190	0.0040	mg/Kg wet	0.02000		95.1	70-130	5.82	25		
cis-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.02000		99.4	70-130	3.46	25		
trans-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.02000		96.4	70-130	6.52	25		
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-130	3.00	25		
cis-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.02000		102	70-130	7.25	25		
trans-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.02000		104	70-130	4.05	25		
Diisopropyl Ether (DIPE)	0.0201	0.0010	mg/Kg wet	0.02000		100	70-130	0.299	25		
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.7	70-130	5.71	25		
2-Hexanone (MBK)	0.197	0.020	mg/Kg wet	0.2000		98.4	70-160	3.10	25		†
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.02000		101	70-130	6.86	25		
p-Isopropyltoluene (p-Cymene)	0.0200	0.0020	mg/Kg wet	0.02000		100	70-130	2.96	25		
Methyl Acetate	0.0199	0.0020	mg/Kg wet	0.02000		99.7	70-130	1.79	25		
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.02000		105	70-130	0.190	25		
Methyl Cyclohexane	0.0209	0.0020	mg/Kg wet	0.02000		104	70-130	1.05	25		
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.02000		92.4	40-160	4.03	25	J	†
4-Methyl-2-pentanone (MIBK)	0.199	0.020	mg/Kg wet	0.2000		99.7	70-160	0.400	25		†
Naphthalene	0.0162	0.0040	mg/Kg wet	0.02000		81.1	40-130	2.62	25	V-05	†
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.02000		101	70-130	4.09	25		
Styrene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130	3.08	25		
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg wet	0.02000		104	70-130	0.962	25		
Tetrachloroethylene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130	8.31	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391897 - SW-846 5035										
LCS Dup (B391897-BSD1)				Prepared & Analyzed: 11/11/24						
Toluene	0.0190	0.0020	mg/Kg wet	0.02000		94.8	70-130	0.945	25	
1,2,3-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.02000		86.6	70-130	4.61	25	
1,2,4-Trichlorobenzene	0.0170	0.0020	mg/Kg wet	0.02000		84.8	70-130	2.45	25	
1,1,1-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.02000		101	70-130	0.295	25	
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.02000		110	70-130	3.05	25	
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.02000		98.6	70-130	1.91	25	
Trichlorofluoromethane (Freon 11)	0.0204	0.010	mg/Kg wet	0.02000		102	70-130	3.95	25	
1,2,3-Trichloropropane	0.0203	0.0020	mg/Kg wet	0.02000		102	70-130	5.37	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0207	0.010	mg/Kg wet	0.02000		103	70-130	8.25	25	
1,2,4-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130	1.55	25	
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.9	70-130	9.63	25	
Vinyl Chloride	0.0167	0.010	mg/Kg wet	0.02000		83.3	40-130	10.6	25	†
m+p Xylene	0.0393	0.0040	mg/Kg wet	0.04000		98.4	70-130	7.16	25	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130	4.11	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0463*		mg/Kg wet	0.05000		92.6	70-130			
Surrogate: Toluene-d8	*0.0500*		mg/Kg wet	0.05000		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0481*		mg/Kg wet	0.05000		96.3	70-130			
LCS Dup (B391897-BSD2)				Prepared & Analyzed: 11/11/24						
Ethanol	0.144	0.20	mg/Kg wet	0.2000		71.8	40-160	13.7	25	V-05, J
Surrogate: 1,2-Dichloroethane-d4	*0.0500*		mg/Kg wet	0.05000		100	70-130			
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.05000		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0481*		mg/Kg wet	0.05000		96.2	70-130			
Matrix Spike (B391897-MS1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/11/24						
Acetone	0.150	0.085	mg/Kg dry	0.1708	ND	87.8	70-130			
tert-Amyl Alcohol (TAA)	0.165	0.017	mg/Kg dry	0.1708	ND	96.4	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0169	0.0017	mg/Kg dry	0.01708	ND	99.2	70-130			
tert-Amyl Methyl Ether (TAME)	0.0199	0.00085	mg/Kg dry	0.01708	ND	116	70-130			
Benzene	0.0145	0.0017	mg/Kg dry	0.01708	ND	84.9	70-130			
Bromochloromethane	0.0204	0.0017	mg/Kg dry	0.01708	ND	119	70-130			
Bromodichloromethane	0.0181	0.0017	mg/Kg dry	0.01708	ND	106	70-130			
Bromoform	0.0195	0.0017	mg/Kg dry	0.01708	ND	114	70-130			
Bromomethane	0.0145	0.0085	mg/Kg dry	0.01708	ND	84.8	70-130			
2-Butanone (MEK)	0.155	0.034	mg/Kg dry	0.1708	ND	90.9	70-130			
tert-Butyl Alcohol (TBA)	0.175	0.085	mg/Kg dry	0.1708	ND	102	70-130			
n-Butylbenzene	0.0163	0.0017	mg/Kg dry	0.01708	ND	95.2	70-130			
sec-Butylbenzene	0.0174	0.0017	mg/Kg dry	0.01708	ND	102	70-130			
tert-Butylbenzene	0.0173	0.0017	mg/Kg dry	0.01708	ND	101	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0185	0.00085	mg/Kg dry	0.01708	ND	109	70-130			
Carbon Disulfide	0.0176	0.017	mg/Kg dry	0.01708	ND	103	70-130			
Carbon Tetrachloride	0.0171	0.0017	mg/Kg dry	0.01708	ND	100	70-130			
Chlorobenzene	0.0174	0.0017	mg/Kg dry	0.01708	ND	102	70-130			
Chlorodibromomethane	0.0185	0.00085	mg/Kg dry	0.01708	ND	108	70-130			
Chloroethane	0.0138	0.017	mg/Kg dry	0.01708	ND	80.9	70-130			J
Chloroform	0.0178	0.0034	mg/Kg dry	0.01708	ND	104	70-130			
Chloromethane	0.0126	0.0085	mg/Kg dry	0.01708	ND	73.7	70-130			
Cyclohexane	0.0161	0.0085	mg/Kg dry	0.01708	ND	94.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0157	0.0017	mg/Kg dry	0.01708	ND	91.7	70-130			
1,2-Dibromoethane (EDB)	0.0181	0.00085	mg/Kg dry	0.01708	ND	106	70-130			
1,2-Dichlorobenzene	0.0172	0.0017	mg/Kg dry	0.01708	ND	101	70-130			
1,3-Dichlorobenzene	0.0167	0.0017	mg/Kg dry	0.01708	ND	97.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391897 - SW-846 5035											
Matrix Spike (B391897-MS1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/11/24							
1,4-Dichlorobenzene	0.0168	0.0017	mg/Kg dry	0.01708	ND	98.2		70-130			
Dichlorodifluoromethane (Freon 12)	0.0151	0.017	mg/Kg dry	0.01708	ND	88.3		70-130			J
1,1-Dichloroethane	0.0169	0.0017	mg/Kg dry	0.01708	ND	98.7		70-130			
1,2-Dichloroethane	0.0157	0.0017	mg/Kg dry	0.01708	ND	92.2		70-130			
1,1-Dichloroethylene	0.0160	0.0034	mg/Kg dry	0.01708	ND	93.5		70-130			
cis-1,2-Dichloroethylene	0.0170	0.0017	mg/Kg dry	0.01708	ND	99.8		70-130			
trans-1,2-Dichloroethylene	0.0162	0.0017	mg/Kg dry	0.01708	ND	94.6		70-130			
1,2-Dichloropropane	0.0161	0.0017	mg/Kg dry	0.01708	ND	94.2		70-130			
cis-1,3-Dichloropropene	0.0180	0.00085	mg/Kg dry	0.01708	ND	105		70-130			
trans-1,3-Dichloropropene	0.0189	0.00085	mg/Kg dry	0.01708	ND	111		70-130			
Diisopropyl Ether (DIPE)	0.0182	0.00085	mg/Kg dry	0.01708	ND	107		70-130			
Ethanol	ND	0.17	mg/Kg dry	0.1708	ND		*	70-130			MS-07A, V-05
Ethylbenzene	0.0169	0.0017	mg/Kg dry	0.01708	ND	98.7		70-130			
2-Hexanone (MBK)	0.165	0.017	mg/Kg dry	0.1708	ND	96.7		70-130			
Isopropylbenzene (Cumene)	0.0173	0.0017	mg/Kg dry	0.01708	ND	101		70-130			
p-Isopropyltoluene (p-Cymene)	0.0176	0.0017	mg/Kg dry	0.01708	ND	103		70-130			
Methyl Acetate	0.0170	0.0017	mg/Kg dry	0.01708	ND	99.5		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0167	0.0034	mg/Kg dry	0.01708	ND	97.5		70-130			
Methyl Cyclohexane	0.0174	0.0017	mg/Kg dry	0.01708	ND	102		70-130			
Methylene Chloride	0.0157	0.017	mg/Kg dry	0.01708	ND	92.1		70-130			J
4-Methyl-2-pentanone (MIBK)	0.168	0.017	mg/Kg dry	0.1708	ND	98.1		70-130			
Naphthalene	0.0121	0.0034	mg/Kg dry	0.01708	ND	70.6		70-130			V-05
n-Propylbenzene	0.0172	0.0017	mg/Kg dry	0.01708	ND	101		70-130			
Styrene	0.0181	0.0017	mg/Kg dry	0.01708	ND	106		70-130			
1,1,2,2-Tetrachloroethane	0.0189	0.00085	mg/Kg dry	0.01708	ND	111		70-130			
Tetrachloroethylene	0.0225	0.0017	mg/Kg dry	0.01708	0.00604	96.4		70-130			
Toluene	0.0157	0.0017	mg/Kg dry	0.01708	ND	92.1		70-130			
1,2,3-Trichlorobenzene	0.0143	0.0017	mg/Kg dry	0.01708	ND	83.9		70-130			
1,2,4-Trichlorobenzene	0.0151	0.0017	mg/Kg dry	0.01708	ND	88.7		70-130			
1,1,1-Trichloroethane	0.0164	0.0017	mg/Kg dry	0.01708	ND	95.9		70-130			
1,1,2-Trichloroethane	0.0196	0.0017	mg/Kg dry	0.01708	ND	115		70-130			
Trichloroethylene	0.0168	0.0017	mg/Kg dry	0.01708	ND	98.3		70-130			
Trichlorofluoromethane (Freon 11)	0.0161	0.0085	mg/Kg dry	0.01708	ND	94.4		70-130			
1,2,3-Trichloropropane	0.0187	0.0017	mg/Kg dry	0.01708	ND	109		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.0085	mg/Kg dry	0.01708	ND	107		70-130			
1,2,4-Trimethylbenzene	0.0173	0.0017	mg/Kg dry	0.01708	ND	101		70-130			
1,3,5-Trimethylbenzene	0.0176	0.0017	mg/Kg dry	0.01708	ND	103		70-130			
Vinyl Chloride	0.0136	0.0085	mg/Kg dry	0.01708	ND	79.9		70-130			
m+p Xylene	0.0343	0.0034	mg/Kg dry	0.03416	ND	100		70-130			
o-Xylene	0.0181	0.0017	mg/Kg dry	0.01708	ND	106		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0420*		mg/Kg dry	0.04270		98.4		70-130			
Surrogate: Toluene-d8	*0.0438*		mg/Kg dry	0.04270		103		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0426*		mg/Kg dry	0.04270		99.8		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391897 - SW-846 5035											
Matrix Spike Dup (B391897-MSD1)		**Source: 24K0481-07**		Prepared & Analyzed: 11/11/24							
Acetone	0.153	0.081	mg/Kg dry	0.1630	ND	93.8		70-130	1.93	30	
tert-Amyl Alcohol (TAA)	0.152	0.016	mg/Kg dry	0.1630	ND	93.6		70-130	7.71	30	
tert-Amyl Ethyl Ether (TAEE)	0.0159	0.0016	mg/Kg dry	0.01630	ND	97.3		70-130	6.63	30	
tert-Amyl Methyl Ether (TAME)	0.0206	0.00081	mg/Kg dry	0.01630	ND	127		70-130	3.87	30	
Benzene	0.0152	0.0016	mg/Kg dry	0.01630	ND	93.1		70-130	4.52	30	
Bromochloromethane	0.0212	0.0016	mg/Kg dry	0.01630	ND	130		70-130	3.98	30	
Bromodichloromethane	0.0176	0.0016	mg/Kg dry	0.01630	ND	108		70-130	2.82	30	
Bromoform	0.0190	0.0016	mg/Kg dry	0.01630	ND	116		70-130	2.52	30	
Bromomethane	0.0158	0.0081	mg/Kg dry	0.01630	ND	97.2		70-130	8.95	30	
2-Butanone (MEK)	0.155	0.033	mg/Kg dry	0.1630	ND	95.4		70-130	0.0961	30	
tert-Butyl Alcohol (TBA)	0.155	0.081	mg/Kg dry	0.1630	ND	95.1		70-130	12.0	30	
n-Butylbenzene	0.0164	0.0016	mg/Kg dry	0.01630	ND	101		70-130	1.02	30	
sec-Butylbenzene	0.0174	0.0016	mg/Kg dry	0.01630	ND	107		70-130	0.189	30	
tert-Butylbenzene	0.0169	0.0016	mg/Kg dry	0.01630	ND	104		70-130	2.06	30	
tert-Butyl Ethyl Ether (TBEE)	0.0186	0.00081	mg/Kg dry	0.01630	ND	114		70-130	0.0707	30	
Carbon Disulfide	0.0184	0.016	mg/Kg dry	0.01630	ND	113		70-130	4.94	30	
Carbon Tetrachloride	0.0176	0.0016	mg/Kg dry	0.01630	ND	108		70-130	3.09	30	
Chlorobenzene	0.0165	0.0016	mg/Kg dry	0.01630	ND	101		70-130	5.09	30	
Chlorodibromomethane	0.0177	0.00081	mg/Kg dry	0.01630	ND	109		70-130	4.23	30	
Chloroethane	0.0143	0.016	mg/Kg dry	0.01630	ND	87.7		70-130	3.38	30	J
Chloroform	0.0182	0.0033	mg/Kg dry	0.01630	ND	112		70-130	2.54	30	
Chloromethane	0.0142	0.0081	mg/Kg dry	0.01630	ND	87.4		70-130	12.3	30	
Cyclohexane	0.0171	0.0081	mg/Kg dry	0.01630	ND	105		70-130	5.86	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0159	0.0016	mg/Kg dry	0.01630	ND	97.3		70-130	1.23	30	
1,2-Dibromoethane (EDB)	0.0180	0.00081	mg/Kg dry	0.01630	ND	111		70-130	0.261	30	
1,2-Dichlorobenzene	0.0171	0.0016	mg/Kg dry	0.01630	ND	105		70-130	0.517	30	
1,3-Dichlorobenzene	0.0170	0.0016	mg/Kg dry	0.01630	ND	104		70-130	1.73	30	
1,4-Dichlorobenzene	0.0164	0.0016	mg/Kg dry	0.01630	ND	101		70-130	2.28	30	
Dichlorodifluoromethane (Freon 12)	0.0155	0.016	mg/Kg dry	0.01630	ND	95.2		70-130	2.83	30	J
1,1-Dichloroethane	0.0180	0.0016	mg/Kg dry	0.01630	ND	110		70-130	6.60	30	
1,2-Dichloroethane	0.0155	0.0016	mg/Kg dry	0.01630	ND	95.2		70-130	1.49	30	
1,1-Dichloroethylene	0.0165	0.0033	mg/Kg dry	0.01630	ND	102		70-130	3.52	30	
cis-1,2-Dichloroethylene	0.0177	0.0016	mg/Kg dry	0.01630	ND	109		70-130	3.85	30	
trans-1,2-Dichloroethylene	0.0168	0.0016	mg/Kg dry	0.01630	ND	103		70-130	3.81	30	
1,2-Dichloropropane	0.0163	0.0016	mg/Kg dry	0.01630	ND	100		70-130	1.58	30	
cis-1,3-Dichloropropene	0.0174	0.00081	mg/Kg dry	0.01630	ND	107		70-130	3.28	30	
trans-1,3-Dichloropropene	0.0181	0.00081	mg/Kg dry	0.01630	ND	111		70-130	4.51	30	
Diisopropyl Ether (DIPE)	0.0182	0.00081	mg/Kg dry	0.01630	ND	111		70-130	0.290	30	
Ethanol	ND	0.16	mg/Kg dry	0.1630	ND		*	70-130		30	MS-07A, V-05
Ethylbenzene	0.0170	0.0016	mg/Kg dry	0.01630	ND	104		70-130	0.632	30	
2-Hexanone (MBK)	0.157	0.016	mg/Kg dry	0.1630	ND	96.3		70-130	5.11	30	
Isopropylbenzene (Cumene)	0.0172	0.0016	mg/Kg dry	0.01630	ND	105		70-130	0.920	30	
p-Isopropyltoluene (p-Cymene)	0.0174	0.0016	mg/Kg dry	0.01630	ND	107		70-130	1.07	30	
Methyl Acetate	0.0167	0.0016	mg/Kg dry	0.01630	ND	103		70-130	1.53	30	
Methyl tert-Butyl Ether (MTBE)	0.0171	0.0033	mg/Kg dry	0.01630	ND	105		70-130	2.81	30	
Methyl Cyclohexane	0.0172	0.0016	mg/Kg dry	0.01630	ND	106		70-130	0.840	30	
Methylene Chloride	0.0163	0.016	mg/Kg dry	0.01630	ND	99.8		70-130	3.33	30	J
4-Methyl-2-pentanone (MIBK)	0.162	0.016	mg/Kg dry	0.1630	ND	99.2		70-130	3.58	30	
Naphthalene	0.0128	0.0033	mg/Kg dry	0.01630	ND	78.7		70-130	6.17	30	V-05
n-Propylbenzene	0.0173	0.0016	mg/Kg dry	0.01630	ND	106		70-130	0.618	30	
Styrene	0.0178	0.0016	mg/Kg dry	0.01630	ND	109		70-130	1.53	30	
1,1,2,2-Tetrachloroethane	0.0178	0.00081	mg/Kg dry	0.01630	ND	109		70-130	6.15	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391897 - SW-846 5035										
Matrix Spike Dup (B391897-MSD1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/11/24						
Tetrachloroethylene	0.0183	0.0016	mg/Kg dry	0.01630	0.00604	75.5	70-130	20.4	30	
Toluene	0.0158	0.0016	mg/Kg dry	0.01630	ND	96.9	70-130	0.386	30	
1,2,3-Trichlorobenzene	0.0155	0.0016	mg/Kg dry	0.01630	ND	95.4	70-130	8.15	30	
1,2,4-Trichlorobenzene	0.0163	0.0016	mg/Kg dry	0.01630	ND	100	70-130	7.59	30	
1,1,1-Trichloroethane	0.0176	0.0016	mg/Kg dry	0.01630	ND	108	70-130	7.09	30	
1,1,2-Trichloroethane	0.0190	0.0016	mg/Kg dry	0.01630	ND	117	70-130	2.88	30	
Trichloroethylene	0.0163	0.0016	mg/Kg dry	0.01630	ND	99.8	70-130	3.18	30	
Trichlorofluoromethane (Freon 11)	0.0172	0.0081	mg/Kg dry	0.01630	ND	105	70-130	6.33	30	
1,2,3-Trichloropropane	0.0166	0.0016	mg/Kg dry	0.01630	ND	102	70-130	11.4	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0189	0.0081	mg/Kg dry	0.01630	ND	116	70-130	3.48	30	
1,2,4-Trimethylbenzene	0.0166	0.0016	mg/Kg dry	0.01630	ND	102	70-130	4.00	30	
1,3,5-Trimethylbenzene	0.0180	0.0016	mg/Kg dry	0.01630	ND	110	70-130	2.53	30	
Vinyl Chloride	0.0140	0.0081	mg/Kg dry	0.01630	ND	86.0	70-130	2.66	30	
m+p Xylene	0.0340	0.0033	mg/Kg dry	0.03259	ND	104	70-130	0.885	30	
o-Xylene	0.0178	0.0016	mg/Kg dry	0.01630	ND	109	70-130	1.62	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0414*		mg/Kg dry	0.04074		102	70-130			
Surrogate: Toluene-d8	*0.0408*		mg/Kg dry	0.04074		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0401*		mg/Kg dry	0.04074		98.3	70-130			
Batch B392083 - SW-846 5030B										
Blank (B392083-BLK1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Acetone	ND	50	µg/L							L-04, V-05
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							R-05
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							R-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392083 - SW-846 5030B										
Blank (B392083-BLK1)				Prepared: 11/13/24 Analyzed: 11/14/24						
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							L-04
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							R-05
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*18.8*		µg/L	25.00		75.0	70-130			
Surrogate: Toluene-d8	*27.0*		µg/L	25.00		108	70-130			
Surrogate: 4-Bromofluorobenzene	*28.3*		µg/L	25.00		113	70-130			
LCS (B392083-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Acetone	60.4	50	µg/L	100.0		**60.4** *	70-160			L-04, V-05 †
tert-Amyl Alcohol (TAA)	114	5.0	µg/L	100.0		114	70-130			
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106	70-130			
tert-Amyl Methyl Ether (TAME)	11.9	0.50	µg/L	10.00		119	70-130			
Benzene	12.6	1.0	µg/L	10.00		126	70-130			V-20
Bromochloromethane	12.3	1.0	µg/L	10.00		123	70-130			R-05
Bromodichloromethane	11.3	0.50	µg/L	10.00		113	70-130			
Bromoform	9.91	1.0	µg/L	10.00		99.1	70-130			
Bromomethane	11.6	2.0	µg/L	10.00		116	40-160			†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B392083 - SW-846 5030B												
LCS (B392083-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24								
2-Butanone (MEK)	96.8	20	µg/L	100.0		96.8		40-160				†
tert-Butyl Alcohol (TBA)	63.9	20	µg/L	100.0		63.9		40-160			R-05	†
n-Butylbenzene	9.86	1.0	µg/L	10.00		98.6		70-130				
sec-Butylbenzene	9.60	1.0	µg/L	10.00		96.0		70-130				
tert-Butylbenzene	9.85	1.0	µg/L	10.00		98.5		70-130				
tert-Butyl Ethyl Ether (TBEE)	11.5	0.50	µg/L	10.00		115		70-130				
Carbon Disulfide	84.4	5.0	µg/L	100.0		84.4		70-130				
Carbon Tetrachloride	11.8	5.0	µg/L	10.00		118		70-130				
Chlorobenzene	10.7	1.0	µg/L	10.00		107		70-130				
Chlorodibromomethane	11.1	0.50	µg/L	10.00		111		70-130				
Chloroethane	7.79	2.0	µg/L	10.00		77.9		70-130				
Chloroform	11.2	2.0	µg/L	10.00		112		70-130				
Chloromethane	10.6	2.0	µg/L	10.00		106		40-160				†
Cyclohexane	12.4	5.0	µg/L	10.00		124		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.49	5.0	µg/L	10.00		94.9		70-130				
1,2-Dibromoethane (EDB)	11.9	0.50	µg/L	10.00		119		70-130				
1,2-Dichlorobenzene	9.87	1.0	µg/L	10.00		98.7		70-130				
1,3-Dichlorobenzene	9.61	1.0	µg/L	10.00		96.1		70-130				
1,4-Dichlorobenzene	9.81	1.0	µg/L	10.00		98.1		70-130				
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.00		122		40-160				†
1,1-Dichloroethane	9.51	1.0	µg/L	10.00		95.1		70-130				
1,2-Dichloroethane	10.4	1.0	µg/L	10.00		104		70-130				
1,1-Dichloroethylene	6.06	1.0	µg/L	10.00		**60.6**	*	70-130			L-04	
cis-1,2-Dichloroethylene	11.9	1.0	µg/L	10.00		119		70-130				
trans-1,2-Dichloroethylene	9.32	1.0	µg/L	10.00		93.2		70-130				
1,2-Dichloropropane	11.6	1.0	µg/L	10.00		116		70-130				
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112		70-130				
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.00		109		70-130				
Diisopropyl Ether (DIPE)	11.8	0.50	µg/L	10.00		118		70-130			R-05	
Ethanol	84.0	50	µg/L	100.0		84.0		40-160			V-20	
Ethylbenzene	10.8	1.0	µg/L	10.00		108		70-130				
2-Hexanone (MBK)	117	10	µg/L	100.0		117		70-160				†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.00		105		70-130				
p-Isopropyltoluene (p-Cymene)	9.66	1.0	µg/L	10.00		96.6		70-130				
Methyl Acetate	7.48	1.0	µg/L	10.00		74.8		70-130				
Methyl tert-Butyl Ether (MTBE)	8.96	1.0	µg/L	10.00		89.6		70-130				
Methyl Cyclohexane	11.9	1.0	µg/L	10.00		119		70-130				
Methylene Chloride	6.78	5.0	µg/L	10.00		**67.8**	*	70-130			L-07, V-20	
4-Methyl-2-pentanone (MIBK)	119	10	µg/L	100.0		119		70-160				†
Naphthalene	11.2	2.0	µg/L	10.00		112		40-130				†
n-Propylbenzene	10.6	1.0	µg/L	10.00		106		70-130				
Styrene	10.8	1.0	µg/L	10.00		108		70-130				
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00		108		70-130				
Tetrachloroethylene	11.7	1.0	µg/L	10.00		117		70-130				
Toluene	12.3	1.0	µg/L	10.00		123		70-130				
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.00		115		70-130				
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.00		100		70-130				
1,1,1-Trichloroethane	11.9	1.0	µg/L	10.00		119		70-130				
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.00		117		70-130				
Trichloroethylene	11.8	1.0	µg/L	10.00		118		70-130				
Trichlorofluoromethane (Freon 11)	8.36	2.0	µg/L	10.00		83.6		70-130				
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.00		106		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392083 - SW-846 5030B											
LCS (B392083-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.03	1.0	µg/L	10.00		90.3	70-130				
1,2,4-Trimethylbenzene	9.79	1.0	µg/L	10.00		97.9	70-130				
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
Vinyl Chloride	11.6	2.0	µg/L	10.00		116	40-160				†
m+p Xylene	21.5	2.0	µg/L	20.00		108	70-130				
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130				
Xylenes (total)	32.4	1.0	µg/L	30.00		108	0-200				
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.00		95.2	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.00		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.00		104	70-130				
LCS Dup (B392083-BSD1)				Prepared: 11/13/24 Analyzed: 11/15/24							
Acetone	61.2	50	µg/L	100.0		**61.2**	* 70-160	1.27	25	L-04, V-05	†
tert-Amyl Alcohol (TAA)	111	5.0	µg/L	100.0		111	70-130	2.99	25		
tert-Amyl Ethyl Ether (TAEE)	11.0	0.50	µg/L	10.00		110	70-130	3.80	25		
tert-Amyl Methyl Ether (TAME)	11.3	0.50	µg/L	10.00		113	70-130	5.18	25		
Benzene	12.2	1.0	µg/L	10.00		122	70-130	3.15	25	V-20	
Bromochloromethane	9.24	1.0	µg/L	10.00		92.4	70-130	**28.1**	* 25	R-05	
Bromodichloromethane	11.0	0.50	µg/L	10.00		110	70-130	1.97	25		
Bromoform	9.55	1.0	µg/L	10.00		95.5	70-130	3.70	25		
Bromomethane	10.6	2.0	µg/L	10.00		106	40-160	8.28	25		†
2-Butanone (MEK)	82.5	20	µg/L	100.0		82.5	40-160	16.0	25		†
tert-Butyl Alcohol (TBA)	82.5	20	µg/L	100.0		82.5	40-160	**25.5**	* 25	R-05	†
n-Butylbenzene	10.0	1.0	µg/L	10.00		100	70-130	1.91	25		
sec-Butylbenzene	10.1	1.0	µg/L	10.00		101	70-130	4.78	25		
tert-Butylbenzene	9.91	1.0	µg/L	10.00		99.1	70-130	0.607	25		
tert-Butyl Ethyl Ether (TBEE)	9.20	0.50	µg/L	10.00		92.0	70-130	22.0	25		
Carbon Disulfide	92.8	5.0	µg/L	100.0		92.8	70-130	9.49	25		
Carbon Tetrachloride	11.8	5.0	µg/L	10.00		118	70-130	0.340	25		
Chlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	3.62	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.00		110	70-130	0.813	25		
Chloroethane	9.98	2.0	µg/L	10.00		99.8	70-130	24.6	25		
Chloroform	9.35	2.0	µg/L	10.00		93.5	70-130	18.1	25		
Chloromethane	10.1	2.0	µg/L	10.00		101	40-160	4.82	25		†
Cyclohexane	11.9	5.0	µg/L	10.00		119	70-130	3.87	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.88	5.0	µg/L	10.00		98.8	70-130	4.03	25		
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.00		116	70-130	2.21	25		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	3.87	25		
1,3-Dichlorobenzene	9.81	1.0	µg/L	10.00		98.1	70-130	2.06	25		
1,4-Dichlorobenzene	9.69	1.0	µg/L	10.00		96.9	70-130	1.23	25		
Dichlorodifluoromethane (Freon 12)	11.8	2.0	µg/L	10.00		118	40-160	3.33	25		†
1,1-Dichloroethane	9.52	1.0	µg/L	10.00		95.2	70-130	0.105	25		
1,2-Dichloroethane	9.99	1.0	µg/L	10.00		99.9	70-130	3.83	25		
1,1-Dichloroethylene	6.33	1.0	µg/L	10.00		**63.3**	* 70-130	4.36	25	L-04	
cis-1,2-Dichloroethylene	9.32	1.0	µg/L	10.00		93.2	70-130	24.6	25		
trans-1,2-Dichloroethylene	9.33	1.0	µg/L	10.00		93.3	70-130	0.107	25		
1,2-Dichloropropane	11.3	1.0	µg/L	10.00		113	70-130	2.88	25		
cis-1,3-Dichloropropene	11.5	0.50	µg/L	10.00		115	70-130	2.65	25		
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.00		111	70-130	1.45	25		
Diisopropyl Ether (DIPE)	8.87	0.50	µg/L	10.00		88.7	70-130	**28.1**	* 25	R-05	
Ethanol	98.4	50	µg/L	100.0		98.4	40-160	15.7	25	V-20	
Ethylbenzene	10.8	1.0	µg/L	10.00		108	70-130	0.371	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392083 - SW-846 5030B											
LCS Dup (B392083-BSD1)				Prepared: 11/13/24 Analyzed: 11/15/24							
2-Hexanone (MBK)	118	10	µg/L	100.0		118	70-160	0.801	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.00		102	70-130	2.32	25		
p-Isopropyltoluene (p-Cymene)	9.74	1.0	µg/L	10.00		97.4	70-130	0.825	25		
Methyl Acetate	7.84	1.0	µg/L	10.00		78.4	70-130	4.70	25		
Methyl tert-Butyl Ether (MTBE)	9.54	1.0	µg/L	10.00		95.4	70-130	6.27	25		
Methyl Cyclohexane	11.8	1.0	µg/L	10.00		118	70-130	1.18	25		
Methylene Chloride	7.73	5.0	µg/L	10.00		77.3	70-130	13.1	25	V-20	
4-Methyl-2-pentanone (MIBK)	119	10	µg/L	100.0		119	70-160	0.302	25		†
Naphthalene	11.3	2.0	µg/L	10.00		113	40-130	0.444	25		†
n-Propylbenzene	10.5	1.0	µg/L	10.00		105	70-130	0.569	25		
Styrene	10.4	1.0	µg/L	10.00		104	70-130	3.41	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00		108	70-130	0.464	25		
Tetrachloroethylene	11.6	1.0	µg/L	10.00		116	70-130	1.20	25		
Toluene	12.1	1.0	µg/L	10.00		121	70-130	1.97	25		
1,2,3-Trichlorobenzene	12.1	5.0	µg/L	10.00		121	70-130	5.25	25		
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	2.46	25		
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00		115	70-130	3.75	25		
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.00		116	70-130	0.856	25		
Trichloroethylene	11.8	1.0	µg/L	10.00		118	70-130	0.0847	25		
Trichlorofluoromethane (Freon 11)	8.74	2.0	µg/L	10.00		87.4	70-130	4.44	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130	2.77	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.67	1.0	µg/L	10.00		96.7	70-130	6.84	25		
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.00		101	70-130	3.31	25		
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.00		100	70-130	2.86	25		
Vinyl Chloride	10.9	2.0	µg/L	10.00		109	40-160	5.95	25		†
m+p Xylene	21.6	2.0	µg/L	20.00		108	70-130	0.417	25		
o-Xylene	10.7	1.0	µg/L	10.00		107	70-130	1.66	25		
Xylenes (total)	32.4	1.0	µg/L	30.00		108	0-200	0.278			
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.00		92.6	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.00		98.9	70-130				
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.00		103	70-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391939 - SW-846 3546										
Blank (B391939-BLK1)				Prepared: 11/11/24 Analyzed: 11/12/24						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							V-05
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
2,2'-oxybis(1-Chloropropane)	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391939 - SW-846 3546											
Blank (B391939-BLK1)				Prepared: 11/11/24 Analyzed: 11/12/24							
3/4-Methylphenol	ND	0.34	mg/Kg wet								
Naphthalene	ND	0.17	mg/Kg wet								
2-Nitroaniline	ND	0.34	mg/Kg wet								
3-Nitroaniline	ND	0.34	mg/Kg wet								
4-Nitroaniline	ND	0.34	mg/Kg wet								
Nitrobenzene	ND	0.34	mg/Kg wet								
2-Nitrophenol	ND	0.34	mg/Kg wet								
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet							V-05	
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet							L-04, V-34	
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*4.54*		mg/Kg wet	6.651		68.3	30-130				
Surrogate: Phenol-d6	*4.71*		mg/Kg wet	6.651		70.8	30-130				
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.326		70.1	30-130				
Surrogate: 2-Fluorobiphenyl	*2.37*		mg/Kg wet	3.326		71.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.43*		mg/Kg wet	6.651		66.6	30-130				
Surrogate: p-Terphenyl-d14	*2.59*		mg/Kg wet	3.326		77.7	30-130				
LCS (B391939-BS1)				Prepared: 11/11/24 Analyzed: 11/12/24							
2,3,4,6-Tetrachlorophenol	1.42	0.67	mg/Kg wet	1.664		85.1	40-140				
Atrazine	1.51	0.67	mg/Kg wet	1.664		90.9	40-140				
Benzaldehyde	1.13	0.34	mg/Kg wet	1.664		68.0	40-140			V-05	
Biphenyl	1.25	0.67	mg/Kg wet	1.664		75.0	40-140				
Caprolactam	1.70	0.34	mg/Kg wet	1.664		102	40-140				
Acenaphthene	1.18	0.17	mg/Kg wet	1.664		70.7	40-140				
Acenaphthylene	1.29	0.17	mg/Kg wet	1.664		77.6	40-140				
Acetophenone	1.10	0.34	mg/Kg wet	1.664		66.2	40-140				
Aniline	0.795	0.34	mg/Kg wet	1.664		47.8	10-140				†
Anthracene	1.32	0.17	mg/Kg wet	1.664		79.5	40-140				
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.664		73.3	40-140				
Benzo(a)pyrene	1.27	0.17	mg/Kg wet	1.664		76.4	40-140				
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.664		73.3	40-140				
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.664		72.4	40-140				
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.664		78.1	40-140				
Bis(2-chloroethoxy)methane	1.28	0.34	mg/Kg wet	1.664		76.9	40-140				
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.664		70.6	40-140				
2,2'-oxybis(1-Chloropropane)	1.38	0.34	mg/Kg wet	1.664		83.0	40-140				
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.664		73.3	40-140				
4-Bromophenylphenylether	1.25	0.34	mg/Kg wet	1.664		75.1	40-140				
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.664		72.5	40-140				
Carbazole	1.39	0.17	mg/Kg wet	1.664		83.3	40-140				
4-Chloroaniline	0.739	0.66	mg/Kg wet	1.664		44.4	10-140				†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.664		72.6	30-130				
2-Chloronaphthalene	1.04	0.34	mg/Kg wet	1.664		62.8	40-140				
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.664		64.9	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391939 - SW-846 3546												
LCS (B391939-BS1)				Prepared: 11/11/24 Analyzed: 11/12/24								
4-Chlorophenylphenylether	1.29	0.34	mg/Kg wet	1.664		77.7		40-140				
Chrysene	1.19	0.17	mg/Kg wet	1.664		71.3		40-140				
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.664		76.2		40-140				
Dibenzofuran	1.30	0.34	mg/Kg wet	1.664		78.2		40-140				
Di-n-butylphthalate	1.30	0.34	mg/Kg wet	1.664		78.4		40-140				
3,3-Dichlorobenzidine	0.814	0.17	mg/Kg wet	1.664		48.9		20-140				†
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.664		70.5		30-130				
Diethylphthalate	1.23	0.34	mg/Kg wet	1.664		73.7		40-140				
2,4-Dimethylphenol	1.19	0.34	mg/Kg wet	1.664		71.3		30-130				
Dimethylphthalate	1.30	0.34	mg/Kg wet	1.664		78.2		40-140				
4,6-Dinitro-2-methylphenol	1.20	0.34	mg/Kg wet	1.664		72.0		30-130				
2,4-Dinitrophenol	0.871	0.66	mg/Kg wet	1.664		52.4		30-130			V-05	
2,4-Dinitrotoluene	1.37	0.34	mg/Kg wet	1.664		82.4		40-140				
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.664		80.4		40-140				
Di-n-octylphthalate	1.12	0.34	mg/Kg wet	1.664		67.2		40-140				
Fluoranthene	1.42	0.17	mg/Kg wet	1.664		85.1		40-140				
Fluorene	1.28	0.17	mg/Kg wet	1.664		77.2		40-140				
Hexachlorobenzene	1.30	0.34	mg/Kg wet	1.664		78.2		40-140				
Hexachlorobutadiene	1.15	0.34	mg/Kg wet	1.664		69.0		40-140				
Hexachlorocyclopentadiene	0.451	0.34	mg/Kg wet	1.664		**27.1**	*	40-140			V-05, L-04	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.664		65.7		40-140				
Indeno(1,2,3-cd)pyrene	1.58	0.17	mg/Kg wet	1.664		94.7		40-140				
Isophorone	1.25	0.34	mg/Kg wet	1.664		75.2		40-140				
1-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.664		71.4		40-140				
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.664		68.7		40-140				
2-Methylphenol	1.08	0.34	mg/Kg wet	1.664		64.6		30-130				
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.664		70.2		30-130				
Naphthalene	1.18	0.17	mg/Kg wet	1.664		70.7		40-140				
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.664		75.4		40-140				
3-Nitroaniline	1.12	0.34	mg/Kg wet	1.664		67.2		30-140				†
4-Nitroaniline	1.33	0.34	mg/Kg wet	1.664		79.7		40-140				
Nitrobenzene	1.13	0.34	mg/Kg wet	1.664		68.0		40-140				
2-Nitrophenol	1.15	0.34	mg/Kg wet	1.664		69.4		30-130				
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.664		71.3		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.32	0.34	mg/Kg wet	1.664		79.6		40-140				
N-Nitrosodi-n-propylamine	1.20	0.34	mg/Kg wet	1.664		72.2		40-140				
Pentachlorophenol	0.963	0.34	mg/Kg wet	1.664		57.9		30-130			V-05	
Phenanthrene	1.31	0.17	mg/Kg wet	1.664		78.6		40-140				
Phenol	1.15	0.34	mg/Kg wet	1.664		68.9		30-130				
Pyrene	1.29	0.17	mg/Kg wet	1.664		77.4		40-140				
Pyridine	0.401	0.34	mg/Kg wet	1.664		**24.1**	*	30-140			L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.14	0.34	mg/Kg wet	1.664		68.3		40-140				
2,4,5-Trichlorophenol	1.27	0.34	mg/Kg wet	1.664		76.3		30-130				
2,4,6-Trichlorophenol	1.19	0.34	mg/Kg wet	1.664		71.5		30-130				
Surrogate: 2-Fluorophenol	*4.90*		mg/Kg wet	6.656		73.7		30-130				
Surrogate: Phenol-d6	*4.78*		mg/Kg wet	6.656		71.8		30-130				
Surrogate: Nitrobenzene-d5	*2.45*		mg/Kg wet	3.328		73.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.50*		mg/Kg wet	3.328		75.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.52*		mg/Kg wet	6.656		82.9		30-130				
Surrogate: p-Terphenyl-d14	*2.70*		mg/Kg wet	3.328		81.2		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391939 - SW-846 3546												
LCS Dup (B391939-BSD1)				Prepared: 11/11/24 Analyzed: 11/12/24								
2,3,4,6-Tetrachlorophenol	1.33	0.67	mg/Kg wet	1.664		79.6		40-140	6.64	20		
Atrazine	1.45	0.67	mg/Kg wet	1.664		86.9		40-140	4.49	30		
Benzaldehyde	1.13	0.34	mg/Kg wet	1.664		67.8		40-140	0.202	20	V-05	
Biphenyl	1.24	0.67	mg/Kg wet	1.664		74.3		40-140	0.905	20		
Caprolactam	1.63	0.34	mg/Kg wet	1.664		98.0		40-140	4.34	20		
Acenaphthene	1.14	0.17	mg/Kg wet	1.664		68.7		40-140	2.92	30		
Acenaphthylene	1.27	0.17	mg/Kg wet	1.664		76.3		40-140	1.63	30		
Acetophenone	1.13	0.34	mg/Kg wet	1.664		67.9		40-140	2.57	30		
Aniline	0.912	0.34	mg/Kg wet	1.664		54.8		10-140	13.7	50		† ‡
Anthracene	1.28	0.17	mg/Kg wet	1.664		77.2		40-140	2.93	30		
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.664		71.5		40-140	2.48	30		
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.664		73.3		40-140	4.19	30		
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.664		71.1		40-140	3.10	30		
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.664		78.1		40-140	7.69	30		
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.664		75.2		40-140	3.80	30		
Bis(2-chloroethoxy)methane	1.28	0.34	mg/Kg wet	1.664		77.1		40-140	0.267	30		
Bis(2-chloroethyl)ether	1.23	0.34	mg/Kg wet	1.664		73.9		40-140	4.63	30		
2,2'-oxybis(1-Chloropropane)	1.49	0.34	mg/Kg wet	1.664		89.6		40-140	7.73	30		
Bis(2-Ethylhexyl)phthalate	1.18	0.34	mg/Kg wet	1.664		70.9		40-140	3.29	30		
4-Bromophenylphenylether	1.20	0.34	mg/Kg wet	1.664		72.2		40-140	3.93	30		
Butylbenzylphthalate	1.18	0.34	mg/Kg wet	1.664		71.0		40-140	2.03	30		
Carbazole	1.35	0.17	mg/Kg wet	1.664		81.3		40-140	2.47	30		
4-Chloroaniline	0.754	0.66	mg/Kg wet	1.664		45.3		10-140	1.99	30		†
4-Chloro-3-methylphenol	1.15	0.66	mg/Kg wet	1.664		69.2		30-130	4.74	30		
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.664		67.9		40-140	7.84	30		
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.664		65.1		30-130	0.279	30		
4-Chlorophenylphenylether	1.24	0.34	mg/Kg wet	1.664		74.7		40-140	3.96	30		
Chrysene	1.15	0.17	mg/Kg wet	1.664		69.0		40-140	3.25	30		
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.664		80.1		40-140	4.95	30		
Dibenzofuran	1.27	0.34	mg/Kg wet	1.664		76.2		40-140	2.45	30		
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.664		76.8		40-140	1.93	30		
3,3-Dichlorobenzidine	0.874	0.17	mg/Kg wet	1.664		52.5		20-140	7.13	50		† ‡
2,4-Dichlorophenol	1.12	0.34	mg/Kg wet	1.664		67.4		30-130	4.52	30		
Diethylphthalate	1.20	0.34	mg/Kg wet	1.664		72.2		40-140	2.11	30		
2,4-Dimethylphenol	1.14	0.34	mg/Kg wet	1.664		68.8		30-130	3.54	30		
Dimethylphthalate	1.27	0.34	mg/Kg wet	1.664		76.1		40-140	2.74	30		
4,6-Dinitro-2-methylphenol	1.16	0.34	mg/Kg wet	1.664		69.4		30-130	3.61	30		
2,4-Dinitrophenol	0.807	0.66	mg/Kg wet	1.664		48.5		30-130	7.62	30	V-05	
2,4-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.664		79.8		40-140	3.12	30		
2,6-Dinitrotoluene	1.29	0.34	mg/Kg wet	1.664		77.6		40-140	3.54	30		
Di-n-octylphthalate	1.11	0.34	mg/Kg wet	1.664		66.5		40-140	1.07	30		
Fluoranthene	1.35	0.17	mg/Kg wet	1.664		80.9		40-140	4.93	30		
Fluorene	1.26	0.17	mg/Kg wet	1.664		75.5		40-140	2.19	30		
Hexachlorobenzene	1.25	0.34	mg/Kg wet	1.664		75.1		40-140	3.96	30		
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.664		65.0		40-140	5.97	30		
Hexachlorocyclopentadiene	0.423	0.34	mg/Kg wet	1.664		**25.4**	*	40-140	6.44	30	L-04, V-05	
Hexachloroethane	1.11	0.34	mg/Kg wet	1.664		66.5		40-140	1.24	30		
Indeno(1,2,3-cd)pyrene	1.65	0.17	mg/Kg wet	1.664		99.2		40-140	4.65	30		
Isophorone	1.26	0.34	mg/Kg wet	1.664		75.6		40-140	0.537	30		
1-Methylnaphthalene	1.15	0.17	mg/Kg wet	1.664		68.9		40-140	3.50	30		
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.664		66.0		40-140	4.00	30		
2-Methylphenol	1.11	0.34	mg/Kg wet	1.664		66.5		30-130	2.84	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391939 - SW-846 3546												
LCS Dup (B391939-BSD1)				Prepared: 11/11/24 Analyzed: 11/12/24								
3/4-Methylphenol	1.21	0.34	mg/Kg wet	1.664		72.5		30-130	3.31	30		
Naphthalene	1.14	0.17	mg/Kg wet	1.664		68.4		40-140	3.22	30		
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.664		78.2		40-140	3.73	30		
3-Nitroaniline	1.13	0.34	mg/Kg wet	1.664		68.1		30-140	1.33	30		†
4-Nitroaniline	1.26	0.34	mg/Kg wet	1.664		75.8		40-140	5.09	30		
Nitrobenzene	1.14	0.34	mg/Kg wet	1.664		68.5		40-140	0.795	30		
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.664		67.6		30-130	2.54	30		
4-Nitrophenol	1.22	0.66	mg/Kg wet	1.664		73.4		30-130	2.99	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.30	0.34	mg/Kg wet	1.664		78.4		40-140	1.56	30		
N-Nitrosodi-n-propylamine	1.25	0.34	mg/Kg wet	1.664		75.3		40-140	4.29	30		
Pentachlorophenol	0.878	0.34	mg/Kg wet	1.664		52.8		30-130	9.15	30	V-05	
Phenanthrene	1.28	0.17	mg/Kg wet	1.664		76.8		40-140	2.23	30		
Phenol	1.18	0.34	mg/Kg wet	1.664		70.9		30-130	2.92	30		
Pyrene	1.26	0.17	mg/Kg wet	1.664		75.6		40-140	2.42	30		
Pyridine	0.402	0.34	mg/Kg wet	1.664		**24.2**	*	30-140	0.199	30	L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.12	0.34	mg/Kg wet	1.664		67.0		40-140	1.80	30		
2,4,5-Trichlorophenol	1.20	0.34	mg/Kg wet	1.664		72.2		30-130	5.46	30		
2,4,6-Trichlorophenol	1.13	0.34	mg/Kg wet	1.664		68.1		30-130	4.78	30		
Surrogate: 2-Fluorophenol	*4.83*		mg/Kg wet	6.658		72.5		30-130				
Surrogate: Phenol-d6	*4.83*		mg/Kg wet	6.658		72.5		30-130				
Surrogate: Nitrobenzene-d5	*2.43*		mg/Kg wet	3.329		72.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.44*		mg/Kg wet	3.329		73.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.14*		mg/Kg wet	6.658		77.3		30-130				
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.329		77.5		30-130				
Matrix Spike (B391939-MS1)		**Source: 24K0481-07**		Prepared: 11/11/24 Analyzed: 11/14/24								
2,3,4,6-Tetrachlorophenol	1.03	0.73	mg/Kg dry	1.828	ND	56.5		40-140				
Atrazine	1.22	0.73	mg/Kg dry	1.828	ND	66.9		40-140				
Benzaldehyde	0.812	0.37	mg/Kg dry	1.828	ND	44.4		40-140			V-05	
Biphenyl	0.936	0.73	mg/Kg dry	1.828	ND	51.2		40-140				
Caprolactam	1.31	0.37	mg/Kg dry	1.828	ND	71.9		40-140				
Acenaphthene	0.889	0.19	mg/Kg dry	1.828	ND	48.6		40-140				
Acenaphthylene	0.973	0.19	mg/Kg dry	1.828	ND	53.2		40-140				
Acetophenone	0.864	0.37	mg/Kg dry	1.828	ND	47.2		40-140				
Aniline	0.819	0.37	mg/Kg dry	1.828	ND	44.8		40-140				
Anthracene	1.03	0.19	mg/Kg dry	1.828	ND	56.6		40-140				
Benzo(a)anthracene	0.962	0.19	mg/Kg dry	1.828	ND	52.6		40-140				
Benzo(a)pyrene	0.991	0.19	mg/Kg dry	1.828	ND	54.2		40-140				
Benzo(b)fluoranthene	0.965	0.19	mg/Kg dry	1.828	ND	52.8		40-140				
Benzo(g,h,i)perylene	0.970	0.19	mg/Kg dry	1.828	ND	53.0		40-140				
Benzo(k)fluoranthene	1.04	0.19	mg/Kg dry	1.828	ND	56.8		40-140				
Bis(2-chloroethoxy)methane	0.985	0.37	mg/Kg dry	1.828	ND	53.9		40-140				
Bis(2-chloroethyl)ether	1.01	0.37	mg/Kg dry	1.828	ND	55.3		40-140				
2,2'-oxybis(1-Chloropropane)	1.18	0.37	mg/Kg dry	1.828	ND	64.4		40-140				
Bis(2-Ethylhexyl)phthalate	1.15	0.37	mg/Kg dry	1.828	ND	63.1		40-140				
4-Bromophenylphenylether	0.962	0.37	mg/Kg dry	1.828	ND	52.6		40-140				
Butylbenzylphthalate	1.05	0.37	mg/Kg dry	1.828	ND	57.5		40-140				
Carbazole	1.09	0.19	mg/Kg dry	1.828	ND	59.5		40-140				
4-Chloroaniline	0.756	0.72	mg/Kg dry	1.828	ND	41.3		40-140				
4-Chloro-3-methylphenol	0.955	0.72	mg/Kg dry	1.828	ND	52.3		30-130				
2-Chloronaphthalene	0.837	0.37	mg/Kg dry	1.828	ND	45.8		40-140				
2-Chlorophenol	0.804	0.37	mg/Kg dry	1.828	ND	44.0		30-130				

Pace Analytical Services, LLC - East Longmeadow, Ma

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391939 - SW-846 3546											
Matrix Spike (B391939-MS1)	**Source: 24K0481-07**			Prepared: 11/11/24 Analyzed: 11/14/24							
4-Chlorophenylphenylether	0.997	0.37	mg/Kg dry	1.828	ND	54.5		40-140			
Chrysene	0.933	0.19	mg/Kg dry	1.828	ND	51.0		40-140			
Dibenz(a,h)anthracene	1.06	0.19	mg/Kg dry	1.828	ND	57.9		40-140			
Dibenzofuran	0.997	0.37	mg/Kg dry	1.828	ND	54.6		40-140			
Di-n-butylphthalate	1.13	0.37	mg/Kg dry	1.828	ND	61.9		40-140			
3,3-Dichlorobenzidine	0.795	0.19	mg/Kg dry	1.828	ND	43.5		40-140			R-06
2,4-Dichlorophenol	0.859	0.37	mg/Kg dry	1.828	ND	47.0		30-130			
Diethylphthalate	1.02	0.37	mg/Kg dry	1.828	ND	55.6		40-140			
2,4-Dimethylphenol	0.871	0.37	mg/Kg dry	1.828	ND	47.6		30-130			
Dimethylphthalate	1.03	0.37	mg/Kg dry	1.828	ND	56.6		40-140			
4,6-Dinitro-2-methylphenol	0.854	0.37	mg/Kg dry	1.828	ND	46.7		30-130			R-06
2,4-Dinitrophenol	0.737	0.72	mg/Kg dry	1.828	ND	40.3		30-130			V-05
2,4-Dinitrotoluene	1.06	0.37	mg/Kg dry	1.828	ND	57.8		40-140			
2,6-Dinitrotoluene	1.03	0.37	mg/Kg dry	1.828	ND	56.4		40-140			
Di-n-octylphthalate	1.08	0.37	mg/Kg dry	1.828	ND	59.3		40-140			
Fluoranthene	1.10	0.19	mg/Kg dry	1.828	ND	60.2		40-140			
Fluorene	0.989	0.19	mg/Kg dry	1.828	ND	54.1		40-140			
Hexachlorobenzene	0.962	0.37	mg/Kg dry	1.828	ND	52.6		40-140			
Hexachlorobutadiene	0.772	0.37	mg/Kg dry	1.828	ND	42.2		40-140			
Hexachlorocyclopentadiene	0.219	0.37	mg/Kg dry	1.828	ND	**12.0**	*	30-130			L-04, MS-09, V-05, J
Hexachloroethane	0.826	0.37	mg/Kg dry	1.828	ND	45.2		40-140			
Indeno(1,2,3-cd)pyrene	1.31	0.19	mg/Kg dry	1.828	ND	71.7		40-140			
Isophorone	0.980	0.37	mg/Kg dry	1.828	ND	53.6		40-140			
1-Methylnaphthalene	0.878	0.19	mg/Kg dry	1.828	ND	48.0		40-140			
2-Methylnaphthalene	0.831	0.19	mg/Kg dry	1.828	ND	45.5		40-140			
2-Methylphenol	0.841	0.37	mg/Kg dry	1.828	ND	46.0		30-130			
3/4-Methylphenol	0.936	0.37	mg/Kg dry	1.828	ND	51.2		30-130			
Naphthalene	0.852	0.19	mg/Kg dry	1.828	ND	46.6		40-140			
2-Nitroaniline	1.06	0.37	mg/Kg dry	1.828	ND	57.8		40-140			
3-Nitroaniline	0.991	0.37	mg/Kg dry	1.828	ND	54.2		40-140			
4-Nitroaniline	1.02	0.37	mg/Kg dry	1.828	ND	56.0		40-140			
Nitrobenzene	0.855	0.37	mg/Kg dry	1.828	ND	46.8		40-140			
2-Nitrophenol	0.819	0.37	mg/Kg dry	1.828	ND	44.8		30-130			
4-Nitrophenol	1.00	0.72	mg/Kg dry	1.828	ND	54.9		30-130			
N-Nitrosodiphenylamine/Diphenylamine	1.05	0.37	mg/Kg dry	1.828	ND	57.3		40-140			
N-Nitrosodi-n-propylamine	0.992	0.37	mg/Kg dry	1.828	ND	54.2		40-140			
Pentachlorophenol	0.661	0.37	mg/Kg dry	1.828	ND	36.2		30-130			V-05
Phenanthrene	1.01	0.19	mg/Kg dry	1.828	ND	55.5		40-140			
Phenol	0.887	0.37	mg/Kg dry	1.828	ND	48.5		30-130			
Pyrene	0.981	0.19	mg/Kg dry	1.828	ND	53.7		40-140			
Pyridine	0.271	0.37	mg/Kg dry	1.828	ND	**14.8**	*	40-140			L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	0.803	0.37	mg/Kg dry	1.828	ND	43.9		40-140			
2,4,5-Trichlorophenol	0.952	0.37	mg/Kg dry	1.828	ND	52.1		30-130			
2,4,6-Trichlorophenol	0.887	0.37	mg/Kg dry	1.828	ND	48.5		30-130			
Surrogate: 2-Fluorophenol	*3.59*		mg/Kg dry	7.313		49.0		30-130			
Surrogate: Phenol-d6	*3.73*		mg/Kg dry	7.313		51.0		30-130			
Surrogate: Nitrobenzene-d5	*1.84*		mg/Kg dry	3.656		50.4		30-130			
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/Kg dry	3.656		51.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.07*		mg/Kg dry	7.313		55.6		30-130			
Surrogate: p-Terphenyl-d14	*2.16*		mg/Kg dry	3.656		59.2		30-130			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391939 - SW-846 3546												
Matrix Spike Dup (B391939-MSD1)	**Source: 24K0481-07**			Prepared: 11/11/24 Analyzed: 11/14/24								
2,3,4,6-Tetrachlorophenol	1.36	0.73	mg/Kg dry	1.828	ND	74.3		40-140	27.3		30	
Atrazine	1.58	0.73	mg/Kg dry	1.828	ND	86.6		40-140	25.6		30	
Benzaldehyde	1.00	0.37	mg/Kg dry	1.828	ND	54.8		40-140	20.8		30	V-05
Biphenyl	1.22	0.73	mg/Kg dry	1.828	ND	66.6		40-140	26.2		30	
Caprolactam	1.74	0.37	mg/Kg dry	1.828	ND	94.9		40-140	27.6		30	
Acenaphthene	1.16	0.19	mg/Kg dry	1.828	ND	63.3		40-140	26.2		30	
Acenaphthylene	1.28	0.19	mg/Kg dry	1.828	ND	69.8		40-140	26.9		30	
Acetophenone	1.10	0.37	mg/Kg dry	1.828	ND	60.5		40-140	24.5		30	
Aniline	1.03	0.37	mg/Kg dry	1.828	ND	56.1		40-140	22.4		30	
Anthracene	1.34	0.19	mg/Kg dry	1.828	ND	73.1		40-140	25.4		30	
Benzo(a)anthracene	1.25	0.19	mg/Kg dry	1.828	ND	68.3		40-140	25.9		30	
Benzo(a)pyrene	1.30	0.19	mg/Kg dry	1.828	ND	71.1		40-140	26.9		30	
Benzo(b)fluoranthene	1.27	0.19	mg/Kg dry	1.828	ND	69.2		40-140	26.9		30	
Benzo(g,h,i)perylene	1.26	0.19	mg/Kg dry	1.828	ND	69.1		40-140	26.2		30	
Benzo(k)fluoranthene	1.33	0.19	mg/Kg dry	1.828	ND	72.9		40-140	24.8		30	
Bis(2-chloroethoxy)methane	1.28	0.37	mg/Kg dry	1.828	ND	70.3		40-140	26.4		30	
Bis(2-chloroethyl)ether	1.14	0.37	mg/Kg dry	1.828	ND	62.6		40-140	12.3		30	
2,2'-oxybis(1-Chloropropane)	1.45	0.37	mg/Kg dry	1.828	ND	79.6		40-140	21.0		30	
Bis(2-Ethylhexyl)phthalate	1.53	0.37	mg/Kg dry	1.828	ND	83.6		40-140	28.0		30	
4-Bromophenylphenylether	1.26	0.37	mg/Kg dry	1.828	ND	69.1		40-140	27.1		30	
Butylbenzylphthalate	1.38	0.37	mg/Kg dry	1.828	ND	75.4		40-140	27.0		30	
Carbazole	1.41	0.19	mg/Kg dry	1.828	ND	77.0		40-140	25.7		30	
4-Chloroaniline	0.992	0.72	mg/Kg dry	1.828	ND	54.3		40-140	27.0		30	
4-Chloro-3-methylphenol	1.26	0.72	mg/Kg dry	1.828	ND	68.7		30-130	27.1		30	
2-Chloronaphthalene	1.07	0.37	mg/Kg dry	1.828	ND	58.3		40-140	23.9		30	
2-Chlorophenol	1.03	0.37	mg/Kg dry	1.828	ND	56.5		30-130	24.9		30	
4-Chlorophenylphenylether	1.30	0.37	mg/Kg dry	1.828	ND	70.9		40-140	26.1		30	
Chrysene	1.21	0.19	mg/Kg dry	1.828	ND	66.0		40-140	25.5		30	
Dibenz(a,h)anthracene	1.39	0.19	mg/Kg dry	1.828	ND	76.1		40-140	27.2		30	
Dibenzofuran	1.29	0.37	mg/Kg dry	1.828	ND	70.8		40-140	25.9		30	
Di-n-butylphthalate	1.51	0.37	mg/Kg dry	1.828	ND	82.4		40-140	28.3		30	
3,3-Dichlorobenzidine	1.08	0.19	mg/Kg dry	1.828	ND	59.3		40-140	**30.8**	*	30	R-06
2,4-Dichlorophenol	1.12	0.37	mg/Kg dry	1.828	ND	61.5		30-130	26.7		30	
Diethylphthalate	1.32	0.37	mg/Kg dry	1.828	ND	72.0		40-140	25.7		30	
2,4-Dimethylphenol	1.14	0.37	mg/Kg dry	1.828	ND	62.4		30-130	26.9		30	
Dimethylphthalate	1.37	0.37	mg/Kg dry	1.828	ND	74.7		40-140	27.6		30	
4,6-Dinitro-2-methylphenol	1.17	0.37	mg/Kg dry	1.828	ND	64.3		30-130	**31.6**	*	30	R-06
2,4-Dinitrophenol	0.996	0.72	mg/Kg dry	1.828	ND	54.5		30-130	29.9		30	V-05
2,4-Dinitrotoluene	1.37	0.37	mg/Kg dry	1.828	ND	74.9		40-140	25.7		30	
2,6-Dinitrotoluene	1.35	0.37	mg/Kg dry	1.828	ND	73.8		40-140	26.7		30	
Di-n-octylphthalate	1.44	0.37	mg/Kg dry	1.828	ND	78.8		40-140	28.2		30	
Fluoranthene	1.46	0.19	mg/Kg dry	1.828	ND	79.7		40-140	27.9		30	
Fluorene	1.30	0.19	mg/Kg dry	1.828	ND	70.9		40-140	26.8		30	
Hexachlorobenzene	1.27	0.37	mg/Kg dry	1.828	ND	69.5		40-140	27.5		30	
Hexachlorobutadiene	0.948	0.37	mg/Kg dry	1.828	ND	51.9		40-140	20.5		30	
Hexachlorocyclopentadiene	0.332	0.37	mg/Kg dry	1.828	ND	**18.1**	*	30-130			30	L-04, MS-09, V-05, J
Hexachloroethane	0.987	0.37	mg/Kg dry	1.828	ND	54.0		40-140	17.7		30	
Indeno(1,2,3-cd)pyrene	1.71	0.19	mg/Kg dry	1.828	ND	93.5		40-140	26.4		30	
Isophorone	1.27	0.37	mg/Kg dry	1.828	ND	69.4		40-140	25.6		30	
1-Methylnaphthalene	1.13	0.19	mg/Kg dry	1.828	ND	62.0		40-140	25.3		30	
2-Methylnaphthalene	1.08	0.19	mg/Kg dry	1.828	ND	59.2		40-140	26.1		30	
2-Methylphenol	1.12	0.37	mg/Kg dry	1.828	ND	61.1		30-130	28.1		30	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391939 - SW-846 3546											
Matrix Spike Dup (B391939-MSD1)	**Source: 24K0481-07**			Prepared: 11/11/24 Analyzed: 11/14/24							
3/4-Methylphenol	1.25	0.37	mg/Kg dry	1.828	ND	68.3		30-130	28.6	30	
Naphthalene	1.06	0.19	mg/Kg dry	1.828	ND	58.0		40-140	21.7	30	
2-Nitroaniline	1.38	0.37	mg/Kg dry	1.828	ND	75.3		40-140	26.2	30	
3-Nitroaniline	1.32	0.37	mg/Kg dry	1.828	ND	72.0		40-140	28.2	30	
4-Nitroaniline	1.36	0.37	mg/Kg dry	1.828	ND	74.3		40-140	28.0	30	
Nitrobenzene	1.07	0.37	mg/Kg dry	1.828	ND	58.6		40-140	22.3	30	
2-Nitrophenol	1.05	0.37	mg/Kg dry	1.828	ND	57.3		30-130	24.4	30	
4-Nitrophenol	1.31	0.72	mg/Kg dry	1.828	ND	71.5		30-130	26.1	30	
N-Nitrosodiphenylamine/Diphenylamine	1.34	0.37	mg/Kg dry	1.828	ND	73.5		40-140	24.8	30	
N-Nitrosodi-n-propylamine	1.27	0.37	mg/Kg dry	1.828	ND	69.6		40-140	24.7	30	
Pentachlorophenol	0.882	0.37	mg/Kg dry	1.828	ND	48.3		30-130	28.7	30	V-05
Phenanthrene	1.31	0.19	mg/Kg dry	1.828	ND	71.9		40-140	25.7	30	
Phenol	1.18	0.37	mg/Kg dry	1.828	ND	64.5		30-130	28.2	30	
Pyrene	1.27	0.19	mg/Kg dry	1.828	ND	69.7		40-140	26.0	30	
Pyridine	0.333	0.37	mg/Kg dry	1.828	ND	**18.2**	*	40-140	20.8	30	L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	1.04	0.37	mg/Kg dry	1.828	ND	57.1		40-140	26.0	30	
2,4,5-Trichlorophenol	1.24	0.37	mg/Kg dry	1.828	ND	68.1		30-130	26.7	30	
2,4,6-Trichlorophenol	1.15	0.37	mg/Kg dry	1.828	ND	62.8		30-130	25.7	30	
Surrogate: 2-Fluorophenol	*4.45*		mg/Kg dry	7.310		60.9		30-130			
Surrogate: Phenol-d6	*4.80*		mg/Kg dry	7.310		65.7		30-130			
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg dry	3.655		62.4		30-130			
Surrogate: 2-Fluorobiphenyl	*2.39*		mg/Kg dry	3.655		65.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*5.18*		mg/Kg dry	7.310		70.8		30-130			
Surrogate: p-Terphenyl-d14	*2.73*		mg/Kg dry	3.655		74.6		30-130			
Batch B391980 - SW-846 3510C											
Blank (B391980-BLK1)				Prepared: 11/12/24 Analyzed: 11/14/24							
2,3,4,6-Tetrachlorophenol	ND	20	µg/L								
Atrazine	ND	20	µg/L								
Benzaldehyde	ND	10	µg/L								
Biphenyl	ND	20	µg/L								
Caprolactam	ND	10	µg/L								L-04
Acenaphthene	ND	5.0	µg/L								
Acenaphthylene	ND	5.0	µg/L								
Acetophenone	ND	10	µg/L								
Aniline	ND	20	µg/L								V-05
Anthracene	ND	5.0	µg/L								
Benzo(a)anthracene	ND	5.0	µg/L								
Benzo(a)pyrene	ND	5.0	µg/L								
Benzo(b)fluoranthene	ND	5.0	µg/L								
Benzo(g,h,i)perylene	ND	5.0	µg/L								
Benzo(k)fluoranthene	ND	5.0	µg/L								
Bis(2-chloroethoxy)methane	ND	10	µg/L								
Bis(2-chloroethyl)ether	ND	10	µg/L								
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L								
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L								
4-Bromophenylphenylether	ND	10	µg/L								
Butylbenzylphthalate	ND	10	µg/L								
Carbazole	ND	10	µg/L								
4-Chloroaniline	ND	10	µg/L								
4-Chloro-3-methylphenol	ND	10	µg/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391980 - SW-846 3510C										
Blank (B391980-BLK1)				Prepared: 11/12/24 Analyzed: 11/14/24						
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							V-06
Pyridine	ND	20	µg/L							V-05, V-34
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*230*		µg/L	400.0		57.6	15-110			
Surrogate: Phenol-d6	*141*		µg/L	400.0		35.2	15-110			
Surrogate: Nitrobenzene-d5	*176*		µg/L	200.0		88.2	30-130			
Surrogate: 2-Fluorobiphenyl	*140*		µg/L	200.0		69.9	30-130			
Surrogate: 2,4,6-Tribromophenol	*338*		µg/L	400.0		84.5	15-110			
Surrogate: p-Terphenyl-d14	*189*		µg/L	200.0		94.6	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391980 - SW-846 3510C												
LCS (B391980-BS1)				Prepared: 11/12/24 Analyzed: 11/14/24								
2,3,4,6-Tetrachlorophenol	80.3	20	µg/L	100.0		80.3		40-140				
Atrazine	107	20	µg/L	100.0		107		40-140				
Benzaldehyde	94.0	10	µg/L	100.0		94.0		40-140				
Biphenyl	90.5	20	µg/L	100.0		90.5		40-140				
Caprolactam	35.4	10	µg/L	100.0		**35.4**	*	40-140			L-04	
Acenaphthene	86.8	5.0	µg/L	100.0		86.8		40-140				
Acenaphthylene	95.0	5.0	µg/L	100.0		95.0		40-140				
Acetophenone	83.9	10	µg/L	100.0		83.9		40-140				
Aniline	82.1	20	µg/L	100.0		82.1		40-140			V-05	
Anthracene	92.4	5.0	µg/L	100.0		92.4		40-140				
Benzo(a)anthracene	93.6	5.0	µg/L	100.0		93.6		40-140				
Benzo(a)pyrene	93.6	5.0	µg/L	100.0		93.6		40-140				
Benzo(b)fluoranthene	98.7	5.0	µg/L	100.0		98.7		40-140				
Benzo(g,h,i)perylene	91.3	5.0	µg/L	100.0		91.3		40-140				
Benzo(k)fluoranthene	101	5.0	µg/L	100.0		101		40-140				
Bis(2-chloroethoxy)methane	91.1	10	µg/L	100.0		91.1		40-140				
Bis(2-chloroethyl)ether	87.4	10	µg/L	100.0		87.4		40-140				
2,2'-oxybis(1-Chloropropane)	85.8	10	µg/L	100.0		85.8		40-140				
Bis(2-Ethylhexyl)phthalate	80.7	10	µg/L	100.0		80.7		40-140				
4-Bromophenylphenylether	94.2	10	µg/L	100.0		94.2		40-140				
Butylbenzylphthalate	94.1	10	µg/L	100.0		94.1		40-140				
Carbazole	91.5	10	µg/L	100.0		91.5		40-140				
4-Chloroaniline	90.8	10	µg/L	100.0		90.8		40-140				
4-Chloro-3-methylphenol	85.8	10	µg/L	100.0		85.8		30-130				
2-Chloronaphthalene	84.6	10	µg/L	100.0		84.6		40-140				
2-Chlorophenol	72.3	10	µg/L	100.0		72.3		30-130				
4-Chlorophenylphenylether	91.2	10	µg/L	100.0		91.2		40-140				
Chrysene	92.3	5.0	µg/L	100.0		92.3		40-140				
Dibenz(a,h)anthracene	83.4	5.0	µg/L	100.0		83.4		40-140			V-04	
Dibenzofuran	95.2	5.0	µg/L	100.0		95.2		40-140				
Di-n-butylphthalate	82.5	10	µg/L	100.0		82.5		40-140				
3,3-Dichlorobenzidine	93.6	10	µg/L	100.0		93.6		40-140				
2,4-Dichlorophenol	79.0	10	µg/L	100.0		79.0		30-130				
Diethylphthalate	86.9	10	µg/L	100.0		86.9		40-140				
2,4-Dimethylphenol	84.2	10	µg/L	100.0		84.2		30-130				
Dimethylphthalate	90.0	10	µg/L	100.0		90.0		40-140				
4,6-Dinitro-2-methylphenol	68.3	20	µg/L	100.0		68.3		30-130				
2,4-Dinitrophenol	40.2	10	µg/L	100.0		40.2		30-130			V-04, R-05	
2,4-Dinitrotoluene	93.0	10	µg/L	100.0		93.0		40-140				
2,6-Dinitrotoluene	96.1	10	µg/L	100.0		96.1		40-140				
Di-n-octylphthalate	83.8	10	µg/L	100.0		83.8		40-140			V-04	
Fluoranthene	90.2	5.0	µg/L	100.0		90.2		40-140				
Fluorene	95.9	5.0	µg/L	100.0		95.9		40-140				
Hexachlorobenzene	95.8	10	µg/L	100.0		95.8		40-140				
Hexachlorobutadiene	83.0	10	µg/L	100.0		83.0		40-140			R-05	
Hexachlorocyclopentadiene	100	10	µg/L	100.0		100		30-140				†
Hexachloroethane	56.6	10	µg/L	100.0		56.6		40-140				
Indeno(1,2,3-cd)pyrene	89.6	5.0	µg/L	100.0		89.6		40-140			V-04	
Isophorone	93.1	10	µg/L	100.0		93.1		40-140				
1-Methylnaphthalene	82.7	5.0	µg/L	100.0		82.7		40-140				
2-Methylnaphthalene	82.1	5.0	µg/L	100.0		82.1		40-140				
2-Methylphenol	76.9	10	µg/L	100.0		76.9		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391980 - SW-846 3510C											
LCS (B391980-BS1)				Prepared: 11/12/24 Analyzed: 11/14/24							
3/4-Methylphenol	73.3	10	µg/L	100.0		73.3	30-130				
Naphthalene	81.9	5.0	µg/L	100.0		81.9	40-140				
2-Nitroaniline	102	10	µg/L	100.0		102	40-140				
3-Nitroaniline	89.8	10	µg/L	100.0		89.8	40-140				
4-Nitroaniline	86.9	10	µg/L	100.0		86.9	40-140				
Nitrobenzene	92.1	10	µg/L	100.0		92.1	40-140				
2-Nitrophenol	73.1	10	µg/L	100.0		73.1	30-130				
4-Nitrophenol	35.6	10	µg/L	100.0		35.6	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	90.7	10	µg/L	100.0		90.7	40-140				
N-Nitrosodi-n-propylamine	77.9	10	µg/L	100.0		77.9	40-140				
Pentachlorophenol	57.0	10	µg/L	100.0		57.0	30-130				
Phenanthrene	91.3	5.0	µg/L	100.0		91.3	40-140				
Phenol	40.2	10	µg/L	100.0		40.2	20-130				†
Pyrene	106	5.0	µg/L	100.0		106	40-140			V-06	
Pyridine	25.5	20	µg/L	100.0		25.5	10-140			V-05, R-05, V-34	†
1,2,4,5-Tetrachlorobenzene	92.7	10	µg/L	100.0		92.7	40-140				
2,4,5-Trichlorophenol	74.5	10	µg/L	100.0		74.5	30-130				
2,4,6-Trichlorophenol	70.6	10	µg/L	100.0		70.6	30-130				
Surrogate: 2-Fluorophenol	*224*		µg/L	400.0		56.0	15-110				
Surrogate: Phenol-d6	*181*		µg/L	400.0		45.1	15-110				
Surrogate: Nitrobenzene-d5	*211*		µg/L	200.0		105	30-130				
Surrogate: 2-Fluorobiphenyl	*177*		µg/L	200.0		88.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*356*		µg/L	400.0		88.9	15-110				
Surrogate: p-Terphenyl-d14	*234*		µg/L	200.0		117	30-130				
LCS Dup (B391980-BSD1)				Prepared: 11/12/24 Analyzed: 11/14/24							
2,3,4,6-Tetrachlorophenol	93.5	20	µg/L	100.0		93.5	40-140	15.2	20		
Atrazine	102	20	µg/L	100.0		102	40-140	5.07	20		
Benzaldehyde	85.8	10	µg/L	100.0		85.8	40-140	9.12	20		
Biphenyl	84.2	20	µg/L	100.0		84.2	40-140	7.20	20		
Caprolactam	34.6	10	µg/L	100.0		**34.6** *	40-140	2.17	20	L-04	
Acenaphthene	81.9	5.0	µg/L	100.0		81.9	40-140	5.74	20		
Acenaphthylene	89.1	5.0	µg/L	100.0		89.1	40-140	6.41	20		
Acetophenone	73.9	10	µg/L	100.0		73.9	40-140	12.7	20		
Aniline	64.0	20	µg/L	100.0		64.0	40-140	24.8	50	V-05	‡
Anthracene	86.8	5.0	µg/L	100.0		86.8	40-140	6.34	20		
Benzo(a)anthracene	86.0	5.0	µg/L	100.0		86.0	40-140	8.45	20		
Benzo(a)pyrene	87.6	5.0	µg/L	100.0		87.6	40-140	6.63	20		
Benzo(b)fluoranthene	91.2	5.0	µg/L	100.0		91.2	40-140	7.89	20		
Benzo(g,h,i)perylene	84.8	5.0	µg/L	100.0		84.8	40-140	7.37	20		
Benzo(k)fluoranthene	92.4	5.0	µg/L	100.0		92.4	40-140	8.52	20		
Bis(2-chloroethoxy)methane	81.8	10	µg/L	100.0		81.8	40-140	10.8	20		
Bis(2-chloroethyl)ether	77.1	10	µg/L	100.0		77.1	40-140	12.5	20		
2,2'-oxybis(1-Chloropropane)	77.1	10	µg/L	100.0		77.1	40-140	10.7	20		
Bis(2-Ethylhexyl)phthalate	74.0	10	µg/L	100.0		74.0	40-140	8.67	20		
4-Bromophenylphenylether	83.6	10	µg/L	100.0		83.6	40-140	11.9	20		
Butylbenzylphthalate	87.7	10	µg/L	100.0		87.7	40-140	7.04	20		
Carbazole	85.2	10	µg/L	100.0		85.2	40-140	7.10	20		
4-Chloroaniline	81.2	10	µg/L	100.0		81.2	40-140	11.1	20		
4-Chloro-3-methylphenol	81.5	10	µg/L	100.0		81.5	30-130	5.16	20		
2-Chloronaphthalene	79.8	10	µg/L	100.0		79.8	40-140	5.87	20		
2-Chlorophenol	72.0	10	µg/L	100.0		72.0	30-130	0.374	20		

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B391980 - SW-846 3510C												
LCS Dup (B391980-BSD1)				Prepared: 11/12/24 Analyzed: 11/14/24								
4-Chlorophenylphenylether	86.7	10	µg/L	100.0		86.7	40-140	5.06		20		
Chrysene	84.9	5.0	µg/L	100.0		84.9	40-140	8.39		20		
Dibenz(a,h)anthracene	76.5	5.0	µg/L	100.0		76.5	40-140	8.69		20	V-04	
Dibenzofuran	89.0	5.0	µg/L	100.0		89.0	40-140	6.70		20		
Di-n-butylphthalate	78.2	10	µg/L	100.0		78.2	40-140	5.29		20		
3,3-Dichlorobenzidine	86.7	10	µg/L	100.0		86.7	40-140	7.65		20		
2,4-Dichlorophenol	82.1	10	µg/L	100.0		82.1	30-130	3.96		20		
Diethylphthalate	80.8	10	µg/L	100.0		80.8	40-140	7.19		20		
2,4-Dimethylphenol	76.2	10	µg/L	100.0		76.2	30-130	9.94		20		
Dimethylphthalate	86.4	10	µg/L	100.0		86.4	40-140	4.13		50		‡
4,6-Dinitro-2-methylphenol	80.9	20	µg/L	100.0		80.9	30-130	16.8		50		‡
2,4-Dinitrophenol	68.2	10	µg/L	100.0		68.2	30-130	**51.7**	*	50	R-05, V-04	‡
2,4-Dinitrotoluene	86.3	10	µg/L	100.0		86.3	40-140	7.50		20		
2,6-Dinitrotoluene	88.6	10	µg/L	100.0		88.6	40-140	8.17		20		
Di-n-octylphthalate	75.2	10	µg/L	100.0		75.2	40-140	10.8		20	V-04	
Fluoranthene	85.2	5.0	µg/L	100.0		85.2	40-140	5.67		20		
Fluorene	88.0	5.0	µg/L	100.0		88.0	40-140	8.64		20		
Hexachlorobenzene	88.4	10	µg/L	100.0		88.4	40-140	8.01		20		
Hexachlorobutadiene	67.4	10	µg/L	100.0		67.4	40-140	**20.8**	*	20	R-05	
Hexachlorocyclopentadiene	91.3	10	µg/L	100.0		91.3	30-140	9.36		50		† ‡
Hexachloroethane	46.9	10	µg/L	100.0		46.9	40-140	18.7		50		‡
Indeno(1,2,3-cd)pyrene	84.4	5.0	µg/L	100.0		84.4	40-140	6.02		50	V-04	‡
Isophorone	86.0	10	µg/L	100.0		86.0	40-140	8.03		20		
1-Methylnaphthalene	74.3	5.0	µg/L	100.0		74.3	40-140	10.7		20		
2-Methylnaphthalene	73.8	5.0	µg/L	100.0		73.8	40-140	10.7		20		
2-Methylphenol	67.9	10	µg/L	100.0		67.9	30-130	12.5		20		
3/4-Methylphenol	65.2	10	µg/L	100.0		65.2	30-130	11.7		20		
Naphthalene	74.2	5.0	µg/L	100.0		74.2	40-140	9.79		20		
2-Nitroaniline	99.7	10	µg/L	100.0		99.7	40-140	2.50		20		
3-Nitroaniline	85.2	10	µg/L	100.0		85.2	40-140	5.27		20		
4-Nitroaniline	81.4	10	µg/L	100.0		81.4	40-140	6.62		20		
Nitrobenzene	84.2	10	µg/L	100.0		84.2	40-140	8.93		20		
2-Nitrophenol	77.7	10	µg/L	100.0		77.7	30-130	6.09		20		
4-Nitrophenol	46.8	10	µg/L	100.0		46.8	10-130	27.1		50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	85.3	10	µg/L	100.0		85.3	40-140	6.08		20		
N-Nitrosodi-n-propylamine	69.8	10	µg/L	100.0		69.8	40-140	10.9		20		
Pentachlorophenol	72.8	10	µg/L	100.0		72.8	30-130	24.2		50		‡
Phenanthrene	86.0	5.0	µg/L	100.0		86.0	40-140	5.98		20		
Phenol	39.2	10	µg/L	100.0		39.2	20-130	2.39		20		†
Pyrene	99.2	5.0	µg/L	100.0		99.2	40-140	6.99		20	V-06	
Pyridine	15.1	20	µg/L	100.0		15.1	10-140	**51.4**	*	50	R-05, V-05, V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	89.1	10	µg/L	100.0		89.1	40-140	3.88		20		
2,4,5-Trichlorophenol	86.2	10	µg/L	100.0		86.2	30-130	14.6		20		
2,4,6-Trichlorophenol	85.2	10	µg/L	100.0		85.2	30-130	18.7		50		‡
Surrogate: 2-Fluorophenol	*227*		µg/L	400.0		56.8	15-110					
Surrogate: Phenol-d6	*158*		µg/L	400.0		39.5	15-110					
Surrogate: Nitrobenzene-d5	*180*		µg/L	200.0		90.0	30-130					
Surrogate: 2-Fluorobiphenyl	*151*		µg/L	200.0		75.5	30-130					
Surrogate: 2,4,6-Tribromophenol	*372*		µg/L	400.0		93.1	15-110					
Surrogate: p-Terphenyl-d14	*204*		µg/L	200.0		102	30-130					

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391943 - SW-846 3510C										
Blank (B391943-BLK1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	0.92	0.20	µg/L							B
Surrogate: 1,4-Dioxane-d8	*2.42*		µg/L	10.00		24.2	15-110			
LCS (B391943-BS1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	11.1	0.20	µg/L	10.00		111	40-140			B
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			
LCS Dup (B391943-BSD1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	12.0	0.20	µg/L	10.00		120	40-140	7.74	30	B
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			
Batch B392040 - SW-846 3546										
Blank (B392040-BLK1)				Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	ND	0.048	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.215*		mg/Kg wet	0.4847		44.4	15-110			
LCS (B392040-BS1)				Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.562	0.048	mg/Kg wet	0.4826		117	40-140			
Surrogate: 1,4-Dioxane-d8	*0.206*		mg/Kg wet	0.4826		42.8	15-110			
LCS Dup (B392040-BSD1)				Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.534	0.048	mg/Kg wet	0.4826		111	40-140	5.17	30	
Surrogate: 1,4-Dioxane-d8	*0.227*		mg/Kg wet	0.4826		47.1	15-110			
Matrix Spike (B392040-MS1)	**Source: 24K0481-07**			Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.595	0.053	mg/Kg dry	0.5274	ND	113	30-140			
Surrogate: 1,4-Dioxane-d8	*0.209*		mg/Kg dry	0.5274		39.6	15-110			
Matrix Spike Dup (B392040-MSD1)	**Source: 24K0481-07**			Prepared: 11/12/24 Analyzed: 11/15/24						
1,4-Dioxane	0.556	0.053	mg/Kg dry	0.5276	ND	105	30-140	6.84	30	
Surrogate: 1,4-Dioxane-d8	*0.199*		mg/Kg dry	0.5276		37.6	15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
Blank (B393182-BLK1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorobutanoic acid (PFBA)	ND	0.79	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.40	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.79	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.79	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	µg/kg wet							
Surrogate: 13C4-PFBA	*6.13*		µg/kg wet	7.937		77.2	8-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
Blank (B393182-BLK1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Surrogate: 13C5-PFPeA	*3.05*		µg/kg wet	3.968		77.0	35-130			
Surrogate: 13C5-PFHxA	*1.58*		µg/kg wet	1.984		79.6	40-130			
Surrogate: 13C4-PFHpA	*1.54*		µg/kg wet	1.984		77.6	40-130			
Surrogate: 13C8-PFOA	*1.52*		µg/kg wet	1.984		76.5	40-130			
Surrogate: 13C9-PFNA	*0.795*		µg/kg wet	0.9921		80.1	40-130			
Surrogate: 13C6-PFDA	*0.867*		µg/kg wet	0.9921		87.4	40-130			
Surrogate: 13C7-PFUnA	*0.825*		µg/kg wet	0.9921		83.2	40-130			
Surrogate: 13C2-PFDoA	*0.828*		µg/kg wet	0.9921		83.5	40-130			
Surrogate: 13C2-PFTeDA	*0.748*		µg/kg wet	0.9921		75.4	20-130			
Surrogate: 13C3-PFBS	*1.57*		µg/kg wet	1.984		79.0	40-135			
Surrogate: 13C3-PFHxS	*1.56*		µg/kg wet	1.984		78.5	40-130			
Surrogate: 13C8-PFOS	*1.54*		µg/kg wet	1.984		77.6	40-130			
Surrogate: 13C2-4:2FTS	*3.22*		µg/kg wet	3.968		81.2	40-165			
Surrogate: 13C2-6:2FTS	*3.04*		µg/kg wet	3.968		76.6	40-215			
Surrogate: 13C2-8:2FTS	*2.71*		µg/kg wet	3.968		68.4	40-275			
Surrogate: 13C8-PFOSA	*1.55*		µg/kg wet	1.984		77.9	40-130			
Surrogate: D3-NMeFOSA	*1.30*		µg/kg wet	1.984		65.6	10-130			
Surrogate: D5-NEtFOSA	*1.32*		µg/kg wet	1.984		66.7	10-130			
Surrogate: D3-NMeFOSAA	*3.54*		µg/kg wet	3.968		89.2	40-135			
Surrogate: D5-NEtFOSAA	*3.84*		µg/kg wet	3.968		96.7	40-150			
Surrogate: D7-NMeFOSE	*14.5*		µg/kg wet	19.84		73.1	20-130			
Surrogate: D9-NEtFOSE	*14.5*		µg/kg wet	19.84		73.2	15-130			
Surrogate: 13C3-HFPO-DA	*6.93*		µg/kg wet	7.937		87.3	40-130			
LCS (B393182-BS1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorobutanoic acid (PFBA)	7.71	0.79	µg/kg wet	7.946		97.0	70-140			
Perfluoropentanoic acid (PFPeA)	3.96	0.40	µg/kg wet	3.973		99.8	60-150			
Perfluorohexanoic acid (PFHxA)	1.93	0.20	µg/kg wet	1.986		97.2	65-140			
Perfluoroheptanoic acid (PFHpA)	1.84	0.20	µg/kg wet	1.986		92.5	65-145			
Perfluorooctanoic acid (PFOA)	1.90	0.20	µg/kg wet	1.986		95.7	70-150			
Perfluorononanoic acid (PFNA)	1.93	0.20	µg/kg wet	1.986		97.4	70-155			
Perfluorodecanoic acid (PFDA)	1.94	0.20	µg/kg wet	1.986		97.7	70-155			
Perfluoroundecanoic acid (PFUnA)	1.98	0.20	µg/kg wet	1.986		99.5	70-155			
Perfluorododecanoic acid (PFDoA)	1.90	0.20	µg/kg wet	1.986		95.7	70-150			
Perfluorotridecanoic acid (PFTrDA)	1.96	0.20	µg/kg wet	1.986		98.9	65-150			
Perfluorotetradecanoic acid (PFTeDA)	1.94	0.20	µg/kg wet	1.986		97.8	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.68	0.20	µg/kg wet	1.764		95.3	65-145			
Perfluoropentanesulfonic acid (PFPeS)	1.88	0.20	µg/kg wet	1.867		101	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.65	0.20	µg/kg wet	1.812		91.0	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.75	0.20	µg/kg wet	1.891		92.3	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.69	0.20	µg/kg wet	1.843		91.5	65-160			
Perfluorononanesulfonic acid (PFNS)	1.67	0.20	µg/kg wet	1.907		87.4	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.74	0.20	µg/kg wet	1.915		91.1	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.60	0.20	µg/kg wet	1.923		83.2	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.82	0.79	µg/kg wet	7.445		105	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.08	0.79	µg/kg wet	7.557		107	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.69	0.79	µg/kg wet	7.628		114	70-150			
Perfluorooctanesulfonamide (PFOSA)	1.86	0.20	µg/kg wet	1.986		93.6	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.90	0.20	µg/kg wet	1.986		95.7	70-155			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
LCS (B393182-BS1)				Prepared: 12/02/24 Analyzed: 12/10/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.88	0.20	µg/kg wet	1.986		94.6	70-140			
N-MeFOSAA (NMeFOSAA)	1.69	0.20	µg/kg wet	1.986		85.2	65-155			
N-EtFOSAA (NEtFOSAA)	1.69	0.20	µg/kg wet	1.986		85.2	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.5	2.0	µg/kg wet	19.86		98.0	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.5	2.0	µg/kg wet	19.86		98.3	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.96	0.79	µg/kg wet	7.946		100	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.68	0.79	µg/kg wet	7.509		102	70-160			
9Cl-PF3ONS (F53B Minor)	7.17	0.79	µg/kg wet	7.414		96.8	70-150			
11Cl-PF3OUdS (F53B Major)	7.36	0.79	µg/kg wet	7.422		99.2	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	7.44	0.99	µg/kg wet	9.932		74.9	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	48.0	5.0	µg/kg wet	49.66		96.7	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	48.5	5.0	µg/kg wet	49.66		97.6	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.65	0.40	µg/kg wet	3.544		103	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.92	0.40	µg/kg wet	3.973		98.6	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.99	0.40	µg/kg wet	3.973		100	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.95	0.40	µg/kg wet	3.973		99.4	60-155			
Surrogate: 13C4-PFBA	*5.89*		µg/kg wet	7.946		74.1	8-130			
Surrogate: 13C5-PFPeA	*3.59*		µg/kg wet	3.973		90.3	35-130			
Surrogate: 13C5-PFHxA	*1.87*		µg/kg wet	1.986		93.9	40-130			
Surrogate: 13C4-PFHpA	*1.76*		µg/kg wet	1.986		88.5	40-130			
Surrogate: 13C8-PFOA	*1.93*		µg/kg wet	1.986		97.0	40-130			
Surrogate: 13C9-PFNA	*0.961*		µg/kg wet	0.9932		96.8	40-130			
Surrogate: 13C6-PFDA	*0.982*		µg/kg wet	0.9932		98.9	40-130			
Surrogate: 13C7-PFUnA	*0.987*		µg/kg wet	0.9932		99.3	40-130			
Surrogate: 13C2-PFDoA	*0.949*		µg/kg wet	0.9932		95.5	40-130			
Surrogate: 13C2-PFTeDA	*0.904*		µg/kg wet	0.9932		91.0	20-130			
Surrogate: 13C3-PFBS	*1.96*		µg/kg wet	1.986		98.6	40-135			
Surrogate: 13C3-PFHxS	*1.92*		µg/kg wet	1.986		96.9	40-130			
Surrogate: 13C8-PFOS	*1.91*		µg/kg wet	1.986		96.1	40-130			
Surrogate: 13C2-4:2FTS	*4.21*		µg/kg wet	3.973		106	40-165			
Surrogate: 13C2-6:2FTS	*3.75*		µg/kg wet	3.973		94.4	40-215			
Surrogate: 13C2-8:2FTS	*3.36*		µg/kg wet	3.973		84.7	40-275			
Surrogate: 13C8-PFOSA	*1.81*		µg/kg wet	1.986		91.1	40-130			
Surrogate: D3-NMeFOSA	*1.60*		µg/kg wet	1.986		80.4	10-130			
Surrogate: D5-NEtFOSA	*1.63*		µg/kg wet	1.986		81.9	10-130			
Surrogate: D3-NMeFOSAA	*4.58*		µg/kg wet	3.973		115	40-135			
Surrogate: D5-NEtFOSAA	*4.72*		µg/kg wet	3.973		119	40-150			
Surrogate: D7-NMeFOSE	*17.0*		µg/kg wet	19.86		85.5	20-130			
Surrogate: D9-NEtFOSE	*16.9*		µg/kg wet	19.86		85.2	15-130			
Surrogate: 13C3-HFPO-DA	*8.02*		µg/kg wet	7.946		101	40-130			
MRL Check (B393182-MRL1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorobutanoic acid (PFBA)	0.731	0.78	µg/kg wet	0.7793		93.7	70-140			J
Perfluoropentanoic acid (PFPeA)	0.374	0.39	µg/kg wet	0.3896		95.9	60-150			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
MRL Check (B393182-MRL1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorohexanoic acid (PFHxA)	0.196	0.19	µg/kg wet	0.1948		101	65-140			
Perfluoroheptanoic acid (PFHpA)	0.178	0.19	µg/kg wet	0.1948		91.3	65-145			J
Perfluorooctanoic acid (PFOA)	0.178	0.19	µg/kg wet	0.1948		91.2	70-150			J
Perfluorononanoic acid (PFNA)	0.178	0.19	µg/kg wet	0.1948		91.1	70-155			J
Perfluorodecanoic acid (PFDA)	0.190	0.19	µg/kg wet	0.1948		97.6	70-155			J
Perfluoroundecanoic acid (PFUnA)	0.170	0.19	µg/kg wet	0.1948		87.3	70-155			J
Perfluorododecanoic acid (PFDoA)	0.183	0.19	µg/kg wet	0.1948		93.8	70-150			J
Perfluorotridecanoic acid (PFTrDA)	0.188	0.19	µg/kg wet	0.1948		96.4	65-150			J
Perfluorotetradecanoic acid (PFTeDA)	0.178	0.19	µg/kg wet	0.1948		91.2	65-150			J
Perfluorobutanesulfonic acid (PFBS)	0.164	0.19	µg/kg wet	0.1730		94.6	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.184	0.19	µg/kg wet	0.1831		100	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.167	0.19	µg/kg wet	0.1777		94.2	60-150			J
Perfluoroheptanesulfonic acid (PFHpS)	0.185	0.19	µg/kg wet	0.1855		99.9	65-155			J
Perfluorooctanesulfonic acid (PFOS)	0.202	0.19	µg/kg wet	0.1808		112	65-160			
Perfluorononanesulfonic acid (PFNS)	0.180	0.19	µg/kg wet	0.1870		96.5	55-140			J
Perfluorodecanesulfonic acid (PFDS)	0.179	0.19	µg/kg wet	0.1878		95.4	40-155			J
Perfluorododecanesulfonic acid (PFDoS)	0.164	0.19	µg/kg wet	0.1886		86.9	25-160			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.647	0.78	µg/kg wet	0.7302		88.6	60-150			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.792	0.78	µg/kg wet	0.7411		107	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.831	0.78	µg/kg wet	0.7481		111	70-150			
Perfluorooctanesulfonamide (PFOSA)	0.186	0.19	µg/kg wet	0.1948		95.2	70-140			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.164	0.19	µg/kg wet	0.1948		84.0	70-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.178	0.19	µg/kg wet	0.1948		91.5	70-140			J
N-MeFOSAA (NMeFOSAA)	0.181	0.19	µg/kg wet	0.1948		92.7	65-155			J
N-EtFOSAA (NEtFOSAA)	0.177	0.19	µg/kg wet	0.1948		91.0	65-165			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.85	1.9	µg/kg wet	1.948		94.8	70-140			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.78	1.9	µg/kg wet	1.948		91.2	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.762	0.78	µg/kg wet	0.7793		97.8	70-145			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.747	0.78	µg/kg wet	0.7364		101	70-160			J
9Cl-PF3ONS (F53B Minor)	0.741	0.78	µg/kg wet	0.7271		102	70-150			J
11Cl-PF3OUdS (F53B Major)	0.730	0.78	µg/kg wet	0.7349		99.3	45-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.823	0.97	µg/kg wet	0.9741		84.5	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	4.32	4.9	µg/kg wet	4.870		88.7	60-130			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	4.42	4.9	µg/kg wet	4.870		90.8	60-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.337	0.39	µg/kg wet	0.3476		96.9	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.380	0.39	µg/kg wet	0.3896		97.6	30-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.383	0.39	µg/kg wet	0.3896		98.3	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.448	0.39	µg/kg wet	0.3896		115	60-155			
Surrogate: 13C4-PFBA	*6.64*		µg/kg wet	7.793		85.2	8-130			
Surrogate: 13C5-PFPeA	*3.21*		µg/kg wet	3.896		82.3	35-130			
Surrogate: 13C5-PFHxA	*1.63*		µg/kg wet	1.948		83.9	40-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
MRL Check (B393182-MRL1)				Prepared: 12/02/24 Analyzed: 12/10/24						
Surrogate: 13C4-PFHpA	*1.58*		µg/kg wet	1.948		80.9	40-130			
Surrogate: 13C8-PFOA	*1.72*		µg/kg wet	1.948		88.1	40-130			
Surrogate: 13C9-PFNA	*0.808*		µg/kg wet	0.9741		83.0	40-130			
Surrogate: 13C6-PFDA	*0.835*		µg/kg wet	0.9741		85.7	40-130			
Surrogate: 13C7-PFUnA	*0.811*		µg/kg wet	0.9741		83.3	40-130			
Surrogate: 13C2-PFDoA	*0.790*		µg/kg wet	0.9741		81.1	40-130			
Surrogate: 13C2-PFTeDA	*0.714*		µg/kg wet	0.9741		73.3	20-130			
Surrogate: 13C3-PFBS	*1.54*		µg/kg wet	1.948		78.8	40-135			
Surrogate: 13C3-PFHxS	*1.53*		µg/kg wet	1.948		78.7	40-130			
Surrogate: 13C8-PFOS	*1.47*		µg/kg wet	1.948		75.5	40-130			
Surrogate: 13C2-4:2FTS	*3.75*		µg/kg wet	3.896		96.3	40-165			
Surrogate: 13C2-6:2FTS	*3.12*		µg/kg wet	3.896		80.1	40-215			
Surrogate: 13C2-8:2FTS	*2.90*		µg/kg wet	3.896		74.5	40-275			
Surrogate: 13C8-PFOSA	*1.56*		µg/kg wet	1.948		80.1	40-130			
Surrogate: D3-NMeFOSA	*1.37*		µg/kg wet	1.948		70.2	10-130			
Surrogate: D5-NEtFOSA	*1.37*		µg/kg wet	1.948		70.1	10-130			
Surrogate: D3-NMeFOSAA	*3.66*		µg/kg wet	3.896		93.9	40-135			
Surrogate: D5-NEtFOSAA	*3.65*		µg/kg wet	3.896		93.8	40-150			
Surrogate: D7-NMeFOSE	*14.7*		µg/kg wet	19.48		75.5	20-130			
Surrogate: D9-NEtFOSE	*14.7*		µg/kg wet	19.48		75.4	15-130			
Surrogate: 13C3-HFPO-DA	*7.21*		µg/kg wet	7.793		92.5	40-130			
Matrix Spike (B393182-MS1)	**Source: 24K0481-07**			Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorobutanoic acid (PFBA)	8.22	0.79	µg/kg dry	7.870	ND	104	70-140			
Perfluoropentanoic acid (PFPeA)	4.26	0.39	µg/kg dry	3.935	ND	108	60-150			
Perfluorohexanoic acid (PFHxA)	2.08	0.20	µg/kg dry	1.968	ND	106	65-140			
Perfluoroheptanoic acid (PFHpA)	2.00	0.20	µg/kg dry	1.968	ND	102	65-145			
Perfluorooctanoic acid (PFOA)	2.12	0.20	µg/kg dry	1.968	ND	108	70-150			
Perfluorononanoic acid (PFNA)	2.02	0.20	µg/kg dry	1.968	ND	103	70-155			
Perfluorodecanoic acid (PFDA)	2.12	0.20	µg/kg dry	1.968	ND	108	70-155			
Perfluoroundecanoic acid (PFUnA)	2.13	0.20	µg/kg dry	1.968	ND	108	70-155			
Perfluorododecanoic acid (PFDoA)	2.05	0.20	µg/kg dry	1.968	ND	104	70-150			
Perfluorotridecanoic acid (PFTrDA)	2.02	0.20	µg/kg dry	1.968	ND	103	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.02	0.20	µg/kg dry	1.968	ND	103	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.91	0.20	µg/kg dry	1.747	ND	109	65-145			
Perfluoropentanesulfonic acid (PFPeS)	2.00	0.20	µg/kg dry	1.850	ND	108	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.79	0.20	µg/kg dry	1.794	ND	100	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.00	0.20	µg/kg dry	1.873	ND	107	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.76	0.20	µg/kg dry	1.826	ND	96.2	65-160			
Perfluorononanesulfonic acid (PFNS)	1.87	0.20	µg/kg dry	1.889	ND	99.0	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.74	0.20	µg/kg dry	1.897	ND	91.6	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.49	0.20	µg/kg dry	1.905	ND	78.5	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.79	0.79	µg/kg dry	7.374	ND	119	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.51	0.79	µg/kg dry	7.485	ND	114	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.91	0.79	µg/kg dry	7.555	ND	118	70-150			
Perfluorooctanesulfonamide (PFOSA)	1.92	0.20	µg/kg dry	1.968	ND	97.5	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.23	0.20	µg/kg dry	1.968	ND	113	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.27	0.20	µg/kg dry	1.968	ND	116	70-140			
N-MeFOSAA (NMeFOSAA)	2.09	0.20	µg/kg dry	1.968	ND	106	65-155			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
Matrix Spike (B393182-MS1)	**Source: 24K0481-07**			Prepared: 12/02/24 Analyzed: 12/10/24						
N-EtFOSAA (NEtFOSAA)	1.91	0.20	µg/kg dry	1.968	ND	96.9	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.1	2.0	µg/kg dry	19.68	ND	102	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.6	2.0	µg/kg dry	19.68	ND	105	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.64	0.79	µg/kg dry	7.870	ND	110	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.18	0.79	µg/kg dry	7.437	ND	110	70-160			
9Cl-PF3ONS (F53B Minor)	7.29	0.79	µg/kg dry	7.343	ND	99.3	70-150			
11Cl-PF3OUdS (F53B Major)	7.55	0.79	µg/kg dry	7.351	ND	103	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	8.53	0.98	µg/kg dry	9.838	ND	86.7	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	47.2	4.9	µg/kg dry	49.19	ND	95.9	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	48.5	4.9	µg/kg dry	49.19	ND	98.6	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.78	0.39	µg/kg dry	3.510	ND	108	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.93	0.39	µg/kg dry	3.935	ND	100	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.20	0.39	µg/kg dry	3.935	ND	107	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.09	0.39	µg/kg dry	3.935	ND	104	60-155			
Surrogate: 13C4-PFBA	*6.89*		µg/kg dry	7.870		87.5	8-130			
Surrogate: 13C5-PFPeA	*3.36*		µg/kg dry	3.935		85.5	35-130			
Surrogate: 13C5-PFHxA	*1.73*		µg/kg dry	1.968		88.1	40-130			
Surrogate: 13C4-PFHpA	*1.59*		µg/kg dry	1.968		81.0	40-130			
Surrogate: 13C8-PFOA	*1.78*		µg/kg dry	1.968		90.3	40-130			
Surrogate: 13C9-PFNA	*0.834*		µg/kg dry	0.9838		84.7	40-130			
Surrogate: 13C6-PFDA	*0.846*		µg/kg dry	0.9838		86.0	40-130			
Surrogate: 13C7-PFUnA	*0.818*		µg/kg dry	0.9838		83.1	40-130			
Surrogate: 13C2-PFDoA	*0.770*		µg/kg dry	0.9838		78.3	40-130			
Surrogate: 13C2-PFTeDA	*0.687*		µg/kg dry	0.9838		69.9	20-130			
Surrogate: 13C3-PFBS	*1.65*		µg/kg dry	1.968		84.1	40-135			
Surrogate: 13C3-PFHxS	*1.58*		µg/kg dry	1.968		80.5	40-130			
Surrogate: 13C8-PFOS	*1.64*		µg/kg dry	1.968		83.6	40-130			
Surrogate: 13C2-4:2FTS	*3.39*		µg/kg dry	3.935		86.1	40-165			
Surrogate: 13C2-6:2FTS	*3.16*		µg/kg dry	3.935		80.4	40-215			
Surrogate: 13C2-8:2FTS	*2.83*		µg/kg dry	3.935		71.9	40-275			
Surrogate: 13C8-PFOSA	*1.69*		µg/kg dry	1.968		85.7	40-130			
Surrogate: D3-NMeFOSA	*1.35*		µg/kg dry	1.968		68.8	10-130			
Surrogate: D5-NEtFOSA	*1.26*		µg/kg dry	1.968		64.0	10-130			
Surrogate: D3-NMeFOSAA	*3.83*		µg/kg dry	3.935		97.3	40-135			
Surrogate: D5-NEtFOSAA	*3.79*		µg/kg dry	3.935		96.3	40-150			
Surrogate: D7-NMeFOSE	*15.2*		µg/kg dry	19.68		77.4	20-130			
Surrogate: D9-NEtFOSE	*14.5*		µg/kg dry	19.68		73.8	15-130			
Surrogate: 13C3-HFPO-DA	*7.30*		µg/kg dry	7.870		92.7	40-130			
Matrix Spike Dup (B393182-MSD1)	**Source: 24K0481-07**			Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorobutanoic acid (PFBA)	8.40	0.78	µg/kg dry	7.824	ND	107	70-140	2.13	25	
Perfluoropentanoic acid (PFPeA)	4.36	0.39	µg/kg dry	3.912	ND	111	60-150	2.36	25	
Perfluorohexanoic acid (PFHxA)	2.20	0.20	µg/kg dry	1.956	ND	113	65-140	5.81	25	
Perfluoroheptanoic acid (PFHpA)	2.04	0.20	µg/kg dry	1.956	ND	104	65-145	1.93	25	
Perfluorooctanoic acid (PFOA)	2.14	0.20	µg/kg dry	1.956	ND	109	70-150	0.870	25	

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
Matrix Spike Dup (B393182-MSD1)	**Source: 24K0481-07**			Prepared: 12/02/24 Analyzed: 12/10/24						
Perfluorononanoic acid (PFNA)	2.15	0.20	µg/kg dry	1.956	ND	110	70-155	5.95	25	
Perfluorodecanoic acid (PFDA)	2.14	0.20	µg/kg dry	1.956	ND	110	70-155	1.23	25	
Perfluoroundecanoic acid (PFUnA)	1.96	0.20	µg/kg dry	1.956	ND	100	70-155	7.87	25	
Perfluorododecanoic acid (PFDoA)	2.01	0.20	µg/kg dry	1.956	ND	103	70-150	1.72	25	
Perfluorotridecanoic acid (PFTrDA)	2.03	0.20	µg/kg dry	1.956	ND	104	65-150	0.582	25	
Perfluorotetradecanoic acid (PFTeDA)	2.15	0.20	µg/kg dry	1.956	ND	110	65-150	5.93	25	
Perfluorobutanesulfonic acid (PFBS)	1.90	0.20	µg/kg dry	1.737	ND	109	65-145	0.631	25	
Perfluoropentanesulfonic acid (PFPeS)	2.02	0.20	µg/kg dry	1.839	ND	110	55-160	0.623	25	
Perfluorohexanesulfonic acid (PFHxS)	1.80	0.20	µg/kg dry	1.784	ND	101	60-150	0.236	25	
Perfluoroheptanesulfonic acid (PFHpS)	2.09	0.20	µg/kg dry	1.862	ND	112	65-155	4.08	25	
Perfluorooctanesulfonic acid (PFOS)	1.90	0.20	µg/kg dry	1.815	ND	105	65-160	8.07	25	
Perfluorononanesulfonic acid (PFNS)	1.80	0.20	µg/kg dry	1.878	ND	95.9	55-140	3.82	25	
Perfluorodecanesulfonic acid (PFDS)	1.87	0.20	µg/kg dry	1.886	ND	99.1	40-155	7.21	25	
Perfluorododecanesulfonic acid (PFDoS)	1.70	0.20	µg/kg dry	1.893	ND	89.6	25-160	12.7	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.95	0.78	µg/kg dry	7.331	ND	122	60-150	1.76	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.08	0.78	µg/kg dry	7.441	ND	122	55-200	6.46	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.41	0.78	µg/kg dry	7.511	ND	125	70-150	5.44	25	
Perfluorooctanesulfonamide (PFOSA)	1.99	0.20	µg/kg dry	1.956	ND	102	70-140	3.49	25	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.25	0.20	µg/kg dry	1.956	ND	115	70-155	0.887	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.30	0.20	µg/kg dry	1.956	ND	117	70-140	0.966	25	
N-MeFOSAA (NMeFOSAA)	1.79	0.20	µg/kg dry	1.956	ND	91.6	65-155	15.2	25	
N-EtFOSAA (NEtFOSAA)	1.73	0.20	µg/kg dry	1.956	ND	88.3	65-165	9.92	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.5	2.0	µg/kg dry	19.56	ND	110	70-140	6.62	25	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.1	2.0	µg/kg dry	19.56	ND	108	70-135	2.48	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.01	0.78	µg/kg dry	7.824	ND	115	70-145	4.21	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.37	0.78	µg/kg dry	7.394	ND	113	70-160	2.22	25	
9Cl-PF3ONS (F53B Minor)	7.75	0.78	µg/kg dry	7.300	ND	106	70-150	6.15	25	
11Cl-PF3OUdS (F53B Major)	7.87	0.78	µg/kg dry	7.308	ND	108	45-160	4.17	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	8.27	0.98	µg/kg dry	9.780	ND	84.5	45-130	3.08	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	50.6	4.9	µg/kg dry	48.90	ND	103	60-130	7.02	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	54.3	4.9	µg/kg dry	48.90	ND	111	60-150	11.2	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.93	0.39	µg/kg dry	3.490	ND	113	70-140	4.01	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.28	0.39	µg/kg dry	3.912	ND	110	30-140	8.50	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.30	0.39	µg/kg dry	3.912	ND	110	60-150	2.51	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.22	0.39	µg/kg dry	3.912	ND	108	60-155	2.99	25	
Surrogate: 13C4-PFBA	*6.29*		µg/kg dry	7.824		80.4	8-130			
Surrogate: 13C5-PFPeA	*3.40*		µg/kg dry	3.912		87.0	35-130			
Surrogate: 13C5-PFHxA	*1.69*		µg/kg dry	1.956		86.5	40-130			
Surrogate: 13C4-PFHpA	*1.60*		µg/kg dry	1.956		82.0	40-130			
Surrogate: 13C8-PFOA	*1.78*		µg/kg dry	1.956		90.9	40-130			
Surrogate: 13C9-PFNA	*0.826*		µg/kg dry	0.9780		84.5	40-130			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393182 - EPA 1633										
Matrix Spike Dup (B393182-MSD1)	**Source: 24K0481-07**			Prepared: 12/02/24 Analyzed: 12/10/24						
Surrogate: 13C6-PFDA	*0.853*		µg/kg dry	0.9780		87.2	40-130			
Surrogate: 13C7-PFUnA	*0.898*		µg/kg dry	0.9780		91.8	40-130			
Surrogate: 13C2-PFDoA	*0.839*		µg/kg dry	0.9780		85.8	40-130			
Surrogate: 13C2-PFTeDA	*0.740*		µg/kg dry	0.9780		75.7	20-130			
Surrogate: 13C3-PFBS	*1.74*		µg/kg dry	1.956		89.1	40-135			
Surrogate: 13C3-PFHxS	*1.70*		µg/kg dry	1.956		86.7	40-130			
Surrogate: 13C8-PFOS	*1.61*		µg/kg dry	1.956		82.3	40-130			
Surrogate: 13C2-4:2FTS	*3.75*		µg/kg dry	3.912		95.9	40-165			
Surrogate: 13C2-6:2FTS	*3.42*		µg/kg dry	3.912		87.4	40-215			
Surrogate: 13C2-8:2FTS	*3.08*		µg/kg dry	3.912		78.7	40-275			
Surrogate: 13C8-PFOSA	*1.66*		µg/kg dry	1.956		84.7	40-130			
Surrogate: D3-NMeFOSA	*1.40*		µg/kg dry	1.956		71.5	10-130			
Surrogate: D5-NEtFOSA	*1.38*		µg/kg dry	1.956		70.5	10-130			
Surrogate: D3-NMeFOSAA	*3.91*		µg/kg dry	3.912		100	40-135			
Surrogate: D5-NEtFOSAA	*4.14*		µg/kg dry	3.912		106	40-150			
Surrogate: D7-NMeFOSE	*15.2*		µg/kg dry	19.56		77.6	20-130			
Surrogate: D9-NEtFOSE	*14.8*		µg/kg dry	19.56		75.7	15-130			
Surrogate: 13C3-HFPO-DA	*7.46*		µg/kg dry	7.824		95.4	40-130			
Batch B393456 - EPA 1633										
Blank (B393456-BLK1)				Prepared: 12/03/24 Analyzed: 12/06/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393456 - EPA 1633										
Blank (B393456-BLK1)				Prepared: 12/03/24 Analyzed: 12/06/24						
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*73.8*		ng/L	78.73		93.7	5-130			
Surrogate: 13C5-PFPeA	*36.6*		ng/L	39.37		92.9	40-130			
Surrogate: 13C5-PFHxA	*19.1*		ng/L	19.68		97.2	40-130			
Surrogate: 13C4-PFHpA	*18.3*		ng/L	19.68		93.0	40-130			
Surrogate: 13C8-PFOA	*17.9*		ng/L	19.68		90.7	40-130			
Surrogate: 13C9-PFNA	*8.59*		ng/L	9.841		87.3	40-130			
Surrogate: 13C6-PFDA	*8.74*		ng/L	9.841		88.8	40-130			
Surrogate: 13C7-PFUnA	*9.16*		ng/L	9.841		93.1	30-130			
Surrogate: 13C2-PFDoA	*8.77*		ng/L	9.841		89.1	10-130			
Surrogate: 13C2-PFTeDA	*8.14*		ng/L	9.841		82.7	10-130			
Surrogate: 13C3-PFBS	*20.0*		ng/L	19.68		101	40-135			
Surrogate: 13C3-PFHxS	*18.6*		ng/L	19.68		94.3	40-130			
Surrogate: 13C8-PFOS	*17.2*		ng/L	19.68		87.4	40-130			
Surrogate: 13C2-4:2FTS	*49.1*		ng/L	39.37		125	40-200			
Surrogate: 13C2-6:2FTS	*42.8*		ng/L	39.37		109	40-200			
Surrogate: 13C2-8:2FTS	*39.7*		ng/L	39.37		101	40-300			
Surrogate: 13C8-PFOSA	*15.0*		ng/L	19.68		76.2	40-130			
Surrogate: D3-NMeFOSA	*10.3*		ng/L	19.68		52.6	10-130			
Surrogate: D5-NEtFOSA	*10.1*		ng/L	19.68		51.5	10-130			
Surrogate: D3-NMeFOSAA	*37.8*		ng/L	39.37		96.0	40-170			
Surrogate: D5-NEtFOSAA	*41.7*		ng/L	39.37		106	25-135			
Surrogate: D7-NMeFOSE	*139*		ng/L	196.8		70.6	10-130			
Surrogate: D9-NEtFOSE	*137*		ng/L	196.8		69.6	10-130			
Surrogate: 13C3-HFPO-DA	*77.4*		ng/L	78.73		98.4	40-130			
LCS (B393456-BS1)				Prepared: 12/03/24 Analyzed: 12/06/24						
Perfluorobutanoic acid (PFBA)	74.1	6.3	ng/L	79.23		93.5	70-140			
Perfluoropentanoic acid (PFPeA)	38.8	3.2	ng/L	39.62		97.9	65-135			
Perfluorohexanoic acid (PFHxA)	19.4	1.6	ng/L	19.81		98.1	70-145			
Perfluoroheptanoic acid (PFHpA)	18.9	1.6	ng/L	19.81		95.5	70-150			
Perfluorooctanoic acid (PFOA)	18.1	1.6	ng/L	19.81		91.2	70-150			
Perfluorononanoic acid (PFNA)	19.6	1.6	ng/L	19.81		98.7	70-150			S-29

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393456 - EPA 1633											
LCS (B393456-BS1)				Prepared: 12/03/24 Analyzed: 12/06/24							
Perfluorodecanoic acid (PFDA)	20.0	1.6	ng/L	19.81		101		70-140			S-29
Perfluoroundecanoic acid (PFUnA)	21.0	1.6	ng/L	19.81		106		70-145			
Perfluorododecanoic acid (PFDoA)	19.5	1.6	ng/L	19.81		98.4		70-140			
Perfluorotridecanoic acid (PFTrDA)	17.5	1.6	ng/L	19.81		88.5		65-140			
Perfluorotetradecanoic acid (PFTeDA)	18.5	1.6	ng/L	19.81		93.5		60-140			
Perfluorobutanesulfonic acid (PFBS)	16.7	1.6	ng/L	17.59		95.1		60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.5	1.6	ng/L	18.62		94.1		65-140			S-29
Perfluorohexanesulfonic acid (PFHxS)	15.9	1.6	ng/L	18.07		88.1		65-145			S-29
Perfluoroheptanesulfonic acid (PFHpS)	19.9	1.6	ng/L	18.86		105		70-150			S-29
Perfluorooctanesulfonic acid (PFOS)	17.6	1.6	ng/L	18.38		95.6		55-150			S-29
Perfluorononanesulfonic acid (PFNS)	17.0	1.6	ng/L	19.02		89.4		65-145			S-29
Perfluorodecanesulfonic acid (PFDS)	15.6	1.6	ng/L	19.10		81.6		60-145			S-29
Perfluorododecanesulfonic acid (PFDoS)	11.4	1.6	ng/L	19.17		59.3		50-145			S-29
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	77.0	6.3	ng/L	74.24		104		70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.2	6.3	ng/L	75.35		104		65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	69.6	6.3	ng/L	76.07		91.5		60-150			S-29
Perfluorooctanesulfonamide (PFOSA)	18.4	1.6	ng/L	19.81		92.9		70-145			S-29
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.0	1.6	ng/L	19.81		96.0		60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.8	1.6	ng/L	19.81		99.8		65-145			
N-MeFOSAA (NMeFOSAA)	18.1	1.6	ng/L	19.81		91.3		50-140			PF-17C
N-EtFOSAA (NEtFOSAA)	16.8	1.6	ng/L	19.81		84.8		70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	181	16	ng/L	198.1		91.3		70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	193	16	ng/L	198.1		97.4		70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	74.0	6.3	ng/L	79.23		93.5		70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	73.3	6.3	ng/L	74.88		98.0		65-145			
9Cl-PF3ONS (F53B Minor)	70.6	6.3	ng/L	73.93		95.6		70-155			
11Cl-PF3OUdS (F53B Major)	66.8	6.3	ng/L	74.01		90.3		55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	88.8	7.9	ng/L	99.04		89.6		65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	435	40	ng/L	495.2		87.8		70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	461	40	ng/L	495.2		93.1		50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	34.7	3.2	ng/L	35.34		98.1		70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	33.5	3.2	ng/L	39.62		84.5		55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	38.4	3.2	ng/L	39.62		96.9		60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	42.9	3.2	ng/L	39.62		108		50-150			
Surrogate: 13C4-PFBA	*39.1*		ng/L	79.23		49.3		5-130			
Surrogate: 13C5-PFPeA	*18.2*		ng/L	39.62		45.8		40-130			
Surrogate: 13C5-PFHxA	*8.89*		ng/L	19.81		44.9		40-130			
Surrogate: 13C4-PFHpA	*8.26*		ng/L	19.81		41.7		40-130			
Surrogate: 13C8-PFOA	*8.35*		ng/L	19.81		42.2		40-130			
Surrogate: 13C9-PFNA	*3.51*		ng/L	9.904		**35.4**	*	40-130			S-29
Surrogate: 13C6-PFDA	*3.41*		ng/L	9.904		**34.5**	*	40-130			S-29

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B393456 - EPA 1633											
LCS (B393456-BS1)				Prepared: 12/03/24 Analyzed: 12/06/24							
Surrogate: 13C7-PFUnA	*3.22*		ng/L	9.904		32.5		30-130			
Surrogate: 13C2-PFDoA	*2.95*		ng/L	9.904		29.8		10-130			
Surrogate: 13C2-PFTeDA	*2.18*		ng/L	9.904		22.0		10-130			
Surrogate: 13C3-PFBS	*8.24*		ng/L	19.81		41.6		40-135			
Surrogate: 13C3-PFHxS	*7.37*		ng/L	19.81		**37.2**	*	40-130			S-29
Surrogate: 13C8-PFOS	*6.42*		ng/L	19.81		**32.4**	*	40-130			S-29
Surrogate: 13C2-4:2FTS	*20.0*		ng/L	39.62		50.6		40-200			
Surrogate: 13C2-6:2FTS	*17.5*		ng/L	39.62		44.2		40-200			
Surrogate: 13C2-8:2FTS	*15.7*		ng/L	39.62		**39.7**	*	40-300			S-29
Surrogate: 13C8-PFOSA	*6.51*		ng/L	19.81		**32.9**	*	40-130			S-29
Surrogate: D3-NMeFOSA	*3.29*		ng/L	19.81		16.6		10-130			
Surrogate: D5-NEtFOSA	*2.70*		ng/L	19.81		13.6		10-130			
Surrogate: D3-NMeFOSAA	*13.2*		ng/L	39.62		**33.3**	*	40-170			PF-17C
Surrogate: D5-NEtFOSAA	*12.6*		ng/L	39.62		31.8		25-135			
Surrogate: D7-NMeFOSE	*48.0*		ng/L	198.1		24.2		10-130			
Surrogate: D9-NEtFOSE	*39.5*		ng/L	198.1		19.9		10-130			
Surrogate: 13C3-HFPO-DA	*38.3*		ng/L	79.23		48.4		40-130			
MRL Check (B393456-MRL1)				Prepared: 12/03/24 Analyzed: 12/06/24							
Perfluorobutanoic acid (PFBA)	5.65	6.3	ng/L	6.251		90.5		70-140			J
Perfluoropentanoic acid (PFPeA)	2.96	3.1	ng/L	3.125		94.6		65-135			J
Perfluorohexanoic acid (PFHxA)	1.38	1.6	ng/L	1.563		88.1		70-145			J
Perfluoroheptanoic acid (PFHpA)	1.41	1.6	ng/L	1.563		90.1		70-150			J
Perfluorooctanoic acid (PFOA)	1.55	1.6	ng/L	1.563		99.1		70-150			J
Perfluorononanoic acid (PFNA)	1.47	1.6	ng/L	1.563		94.1		70-150			J
Perfluorodecanoic acid (PFDA)	1.64	1.6	ng/L	1.563		105		70-140			
Perfluoroundecanoic acid (PFUnA)	1.66	1.6	ng/L	1.563		106		70-145			
Perfluorododecanoic acid (PFDoA)	1.66	1.6	ng/L	1.563		106		70-140			
Perfluorotridecanoic acid (PFTrDA)	1.25	1.6	ng/L	1.563		80.1		65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.51	1.6	ng/L	1.563		96.8		60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.37	1.6	ng/L	1.388		98.9		60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.70	1.6	ng/L	1.469		116		65-140			
Perfluorohexanesulfonic acid (PFHxS)	1.43	1.6	ng/L	1.425		100		65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.82	1.6	ng/L	1.488		122		70-150			
Perfluorooctanesulfonic acid (PFOS)	1.57	1.6	ng/L	1.450		108		55-150			
Perfluorononanesulfonic acid (PFNS)	1.10	1.6	ng/L	1.500		73.5		65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.00	1.6	ng/L	1.506		66.6		60-145			J
Perfluorododecanesulfonic acid (PFDoS)	0.806	1.6	ng/L	1.513		53.3		50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.59	6.3	ng/L	5.857		95.5		70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.80	6.3	ng/L	5.945		97.5		65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.13	6.3	ng/L	6.001		85.4		60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.59	1.6	ng/L	1.563		102		70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.95	1.6	ng/L	1.563		125		60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.73	1.6	ng/L	1.563		111		65-145			
N-MeFOSAA (NMeFOSAA)	1.96	1.6	ng/L	1.563		125		50-140			
N-EtFOSAA (NEtFOSAA)	1.71	1.6	ng/L	1.563		109		70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	15.7	16	ng/L	15.63		101		70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	15.7	16	ng/L	15.63		101		70-135			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393456 - EPA 1633										
MRL Check (B393456-MRL1)				Prepared: 12/03/24 Analyzed: 12/06/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.92	6.3	ng/L	6.251		94.7	70-140			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.90	6.3	ng/L	5.907		99.8	65-145			J
9Cl-PF3ONS (F53B Minor)	5.31	6.3	ng/L	5.832		91.0	70-155			J
11Cl-PF3OUdS (F53B Major)	3.70	6.3	ng/L	5.895		62.7	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	7.52	7.8	ng/L	7.814		96.3	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	33.2	39	ng/L	39.07		84.9	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	29.1	39	ng/L	39.07		74.6	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.68	3.1	ng/L	2.788		96.1	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.25	3.1	ng/L	3.125		104	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.22	3.1	ng/L	3.125		103	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.14	3.1	ng/L	3.125		100	50-150			
Surrogate: 13C4-PFBA	*60.9*		ng/L	78.14		77.9	5-130			
Surrogate: 13C5-PFPeA	*28.3*		ng/L	39.07		72.6	40-130			
Surrogate: 13C5-PFHxA	*13.9*		ng/L	19.53		70.9	40-130			
Surrogate: 13C4-PFHpA	*13.0*		ng/L	19.53		66.5	40-130			
Surrogate: 13C8-PFOA	*13.0*		ng/L	19.53		66.7	40-130			
Surrogate: 13C9-PFNA	*5.51*		ng/L	9.767		56.5	40-130			
Surrogate: 13C6-PFDA	*4.63*		ng/L	9.767		47.4	40-130			
Surrogate: 13C7-PFUnA	*4.05*		ng/L	9.767		41.4	30-130			
Surrogate: 13C2-PFDoA	*3.14*		ng/L	9.767		32.1	10-130			
Surrogate: 13C2-PFTeDA	*1.71*		ng/L	9.767		17.5	10-130			
Surrogate: 13C3-PFBS	*13.7*		ng/L	19.53		70.0	40-135			
Surrogate: 13C3-PFHxS	*11.2*		ng/L	19.53		57.5	40-130			
Surrogate: 13C8-PFOS	*8.50*		ng/L	19.53		43.5	40-130			
Surrogate: 13C2-4:2FTS	*35.0*		ng/L	39.07		89.7	40-200			
Surrogate: 13C2-6:2FTS	*29.7*		ng/L	39.07		76.1	40-200			
Surrogate: 13C2-8:2FTS	*21.3*		ng/L	39.07		54.6	40-300			
Surrogate: 13C8-PFOSA	*7.92*		ng/L	19.53		40.5	40-130			
Surrogate: D3-NMeFOSA	*3.41*		ng/L	19.53		17.4	10-130			
Surrogate: D5-NEtFOSA	*2.90*		ng/L	19.53		14.8	10-130			
Surrogate: D3-NMeFOSAA	*16.0*		ng/L	39.07		41.0	40-170			
Surrogate: D5-NEtFOSAA	*14.3*		ng/L	39.07		36.7	25-135			
Surrogate: D7-NMeFOSE	*37.2*		ng/L	195.3		19.0	10-130			
Surrogate: D9-NEtFOSE	*31.2*		ng/L	195.3		16.0	10-130			
Surrogate: 13C3-HFPO-DA	*59.0*		ng/L	78.14		75.4	40-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391979 - SW-846 3510C										
Blank (B391979-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							R-05
Dieldrin [2C]	ND	0.0020	µg/L							R-05
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							R-05
Endrin [2C]	ND	0.080	µg/L							R-05
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							R-05
Endrin Ketone [2C]	ND	0.080	µg/L							R-05
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*2.64*		µg/L	4.000		65.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.67*		µg/L	4.000		66.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.84*		µg/L	4.000		45.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.93*		µg/L	4.000		48.3	30-150			

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Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391979 - SW-846 3510C										
LCS (B391979-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24						
alpha-Chlordane	1.6	0.050	µg/L	2.000		81.9	0-200			
alpha-Chlordane [2C]	1.7	0.050	µg/L	2.000		86.3	0-200			
gamma-Chlordane	1.6	0.050	µg/L	2.000		80.0	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		86.6	0-200			
Aldrin	1.4	0.050	µg/L	2.000		70.8	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.000		75.9	40-140			
alpha-BHC	1.6	0.050	µg/L	2.000		79.6	40-140			
alpha-BHC [2C]	1.6	0.050	µg/L	2.000		78.8	40-140			
beta-BHC	1.5	0.050	µg/L	2.000		74.1	40-140			
beta-BHC [2C]	1.7	0.050	µg/L	2.000		82.9	40-140			
delta-BHC	1.4	0.050	µg/L	2.000		68.0	40-140			
delta-BHC [2C]	1.4	0.050	µg/L	2.000		69.9	40-140			
gamma-BHC (Lindane)	1.5	0.030	µg/L	2.000		75.7	40-140			
gamma-BHC (Lindane) [2C]	1.6	0.030	µg/L	2.000		81.8	40-140			
4,4'-DDD	1.8	0.040	µg/L	2.000		90.7	40-140			
4,4'-DDD [2C]	1.9	0.040	µg/L	2.000		94.5	40-140			
4,4'-DDE	1.7	0.040	µg/L	2.000		87.2	40-140			
4,4'-DDE [2C]	1.8	0.040	µg/L	2.000		90.7	40-140			
4,4'-DDT	1.6	0.040	µg/L	2.000		80.0	40-140			
4,4'-DDT [2C]	1.7	0.040	µg/L	2.000		83.9	40-140			
Dieldrin	1.7	0.0020	µg/L	2.000		85.0	40-140			R-05
Dieldrin [2C]	1.8	0.0020	µg/L	2.000		90.5	40-140			R-05
Endosulfan I	1.6	0.050	µg/L	2.000		80.7	40-140			
Endosulfan I [2C]	1.8	0.050	µg/L	2.000		87.6	40-140			
Endosulfan II	1.7	0.080	µg/L	2.000		83.0	40-140			
Endosulfan II [2C]	1.8	0.080	µg/L	2.000		90.4	40-140			
Endosulfan Sulfate	1.5	0.080	µg/L	2.000		74.3	40-140			
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.000		83.4	40-140			
Endrin	1.7	0.080	µg/L	2.000		82.6	40-140			R-05
Endrin [2C]	1.7	0.080	µg/L	2.000		85.6	40-140			R-05
Endrin Aldehyde	1.4	0.080	µg/L	2.000		68.7	40-140			
Endrin Aldehyde [2C]	1.5	0.080	µg/L	2.000		73.0	40-140			
Endrin Ketone	1.7	0.080	µg/L	2.000		84.9	40-140			R-05
Endrin Ketone [2C]	1.7	0.080	µg/L	2.000		83.9	40-140			R-05
Heptachlor	1.5	0.050	µg/L	2.000		74.7	40-140			
Heptachlor [2C]	1.6	0.050	µg/L	2.000		79.6	40-140			
Heptachlor Epoxide	1.6	0.050	µg/L	2.000		82.2	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		86.7	40-140			
Methoxychlor	1.5	0.50	µg/L	2.000		74.9	40-140			
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		82.9	40-140			
Surrogate: Decachlorobiphenyl	*3.12*		µg/L	4.000		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.13*		µg/L	4.000		78.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.35*		µg/L	4.000		58.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.43*		µg/L	4.000		60.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391979 - SW-846 3510C												
LCS Dup (B391979-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24								
alpha-Chlordane	1.5	0.050	µg/L	2.000		76.3		0-200	7.03			
alpha-Chlordane [2C]	1.6	0.050	µg/L	2.000		81.6		0-200	5.56			
gamma-Chlordane	1.5	0.050	µg/L	2.000		73.8		0-200	8.09			
gamma-Chlordane [2C]	1.6	0.050	µg/L	2.000		80.4		0-200	7.41			
Aldrin	1.3	0.050	µg/L	2.000		62.9		40-140	11.8		20	
Aldrin [2C]	1.4	0.050	µg/L	2.000		67.5		40-140	11.7		20	
alpha-BHC	1.5	0.050	µg/L	2.000		73.0		40-140	8.71		20	
alpha-BHC [2C]	1.5	0.050	µg/L	2.000		75.0		40-140	4.95		20	
beta-BHC	1.4	0.050	µg/L	2.000		72.1		40-140	2.73		20	
beta-BHC [2C]	1.5	0.050	µg/L	2.000		76.3		40-140	8.31		20	
delta-BHC	1.2	0.050	µg/L	2.000		61.8		40-140	9.65		20	
delta-BHC [2C]	1.3	0.050	µg/L	2.000		63.8		40-140	9.09		20	
gamma-BHC (Lindane)	1.4	0.030	µg/L	2.000		68.5		40-140	9.85		20	
gamma-BHC (Lindane) [2C]	1.5	0.030	µg/L	2.000		74.2		40-140	9.72		20	
4,4'-DDD	1.7	0.040	µg/L	2.000		86.1		40-140	5.26		20	
4,4'-DDD [2C]	1.8	0.040	µg/L	2.000		89.7		40-140	5.17		20	
4,4'-DDE	1.6	0.040	µg/L	2.000		81.9		40-140	6.22		20	
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		86.4		40-140	4.87		20	
4,4'-DDT	1.5	0.040	µg/L	2.000		77.2		40-140	3.55		20	
4,4'-DDT [2C]	1.6	0.040	µg/L	2.000		79.6		40-140	5.20		20	
Dieldrin	1.2	0.0020	µg/L	2.000		60.5		40-140	**33.8**	*	20	R-05
Dieldrin [2C]	1.3	0.0020	µg/L	2.000		64.2		40-140	**34.0**	*	20	R-05
Endosulfan I	1.5	0.050	µg/L	2.000		76.4		40-140	5.50		20	
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		83.2		40-140	5.17		20	
Endosulfan II	1.5	0.080	µg/L	2.000		77.4		40-140	7.05		20	
Endosulfan II [2C]	1.7	0.080	µg/L	2.000		84.7		40-140	6.51		20	
Endosulfan Sulfate	1.4	0.080	µg/L	2.000		69.0		40-140	7.48		20	
Endosulfan Sulfate [2C]	1.6	0.080	µg/L	2.000		77.7		40-140	7.05		20	
Endrin	0.018	0.080	µg/L	2.000		**0.899**	*	40-140	**196**	*	20	J, L-07A
Endrin [2C]	0.015	0.080	µg/L	2.000		**0.768**	*	40-140	**196**	*	20	J, L-07A
Endrin Aldehyde	1.3	0.080	µg/L	2.000		65.7		40-140	4.43		20	
Endrin Aldehyde [2C]	1.4	0.080	µg/L	2.000		70.6		40-140	3.31		20	
Endrin Ketone	2.7	0.080	µg/L	2.000		136		40-140	**46.3**	*	20	R-05
Endrin Ketone [2C]	2.7	0.080	µg/L	2.000		135		40-140	**46.5**	*	20	R-05
Heptachlor	1.3	0.050	µg/L	2.000		67.0		40-140	10.9		20	
Heptachlor [2C]	1.4	0.050	µg/L	2.000		71.4		40-140	10.9		20	
Heptachlor Epoxide	1.5	0.050	µg/L	2.000		76.1		40-140	7.68		20	
Heptachlor Epoxide [2C]	1.6	0.050	µg/L	2.000		80.4		40-140	7.51		20	
Methoxychlor	1.4	0.50	µg/L	2.000		69.3		40-140	7.87		20	
Methoxychlor [2C]	1.5	0.50	µg/L	2.000		77.0		40-140	7.36		20	
Surrogate: Decachlorobiphenyl	*3.32*		µg/L	4.000		83.1		30-150				
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	4.000		83.4		30-150				
Surrogate: Tetrachloro-m-xylene	*2.06*		µg/L	4.000		51.5		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.12*		µg/L	4.000		53.0		30-150				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
Blank (B392152-BLK1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	ND	0.0046	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0046	mg/Kg wet							
gamma-Chlordane	ND	0.0046	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0046	mg/Kg wet							
Aldrin	ND	0.0046	mg/Kg wet							
Aldrin [2C]	ND	0.0046	mg/Kg wet							
alpha-BHC	ND	0.0046	mg/Kg wet							
alpha-BHC [2C]	ND	0.0046	mg/Kg wet							
beta-BHC	ND	0.0046	mg/Kg wet							
beta-BHC [2C]	ND	0.0046	mg/Kg wet							
delta-BHC	ND	0.0046	mg/Kg wet							
delta-BHC [2C]	ND	0.0046	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0018	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0018	mg/Kg wet							
4,4'-DDD	ND	0.0037	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDE	ND	0.0037	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDT	ND	0.0037	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0037	mg/Kg wet							
Dieldrin	ND	0.0037	mg/Kg wet							
Dieldrin [2C]	ND	0.0037	mg/Kg wet							
Endosulfan I	ND	0.0046	mg/Kg wet							
Endosulfan I [2C]	ND	0.0046	mg/Kg wet							
Endosulfan II	ND	0.0074	mg/Kg wet							
Endosulfan II [2C]	ND	0.0074	mg/Kg wet							
Endosulfan Sulfate	ND	0.0074	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0074	mg/Kg wet							
Endrin	ND	0.0074	mg/Kg wet							
Endrin [2C]	ND	0.0074	mg/Kg wet							
Endrin Aldehyde	ND	0.0074	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0074	mg/Kg wet							
Endrin Ketone	ND	0.0074	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0074	mg/Kg wet							
Heptachlor	ND	0.0046	mg/Kg wet							
Heptachlor [2C]	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0046	mg/Kg wet							
Methoxychlor	ND	0.046	mg/Kg wet							
Methoxychlor [2C]	ND	0.046	mg/Kg wet							
Toxaphene	ND	0.092	mg/Kg wet							
Toxaphene [2C]	ND	0.092	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.1840		82.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.147*		mg/Kg wet	0.1840		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.129*		mg/Kg wet	0.1840		70.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.135*		mg/Kg wet	0.1840		73.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
LCS (B392152-BS1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	0.074	0.0046	mg/Kg wet	0.09208		80.7	40-140			
alpha-Chlordane [2C]	0.080	0.0046	mg/Kg wet	0.09208		86.8	40-140			
gamma-Chlordane	0.081	0.0046	mg/Kg wet	0.09208		88.3	40-140			
gamma-Chlordane [2C]	0.079	0.0046	mg/Kg wet	0.09208		85.8	40-140			
Aldrin	0.074	0.0046	mg/Kg wet	0.09208		79.9	40-140			
Aldrin [2C]	0.078	0.0046	mg/Kg wet	0.09208		85.0	40-140			
alpha-BHC	0.075	0.0046	mg/Kg wet	0.09208		81.8	40-140			
alpha-BHC [2C]	0.078	0.0046	mg/Kg wet	0.09208		85.2	40-140			
beta-BHC	0.070	0.0046	mg/Kg wet	0.09208		75.8	40-140			
beta-BHC [2C]	0.074	0.0046	mg/Kg wet	0.09208		80.1	40-140			
delta-BHC	0.073	0.0046	mg/Kg wet	0.09208		79.0	40-140			
delta-BHC [2C]	0.074	0.0046	mg/Kg wet	0.09208		80.3	40-140			
gamma-BHC (Lindane)	0.071	0.0018	mg/Kg wet	0.09208		77.1	40-140			
gamma-BHC (Lindane) [2C]	0.075	0.0018	mg/Kg wet	0.09208		81.0	40-140			
4,4'-DDD	0.082	0.0037	mg/Kg wet	0.09208		88.9	40-140			
4,4'-DDD [2C]	0.084	0.0037	mg/Kg wet	0.09208		91.5	40-140			
4,4'-DDE	0.080	0.0037	mg/Kg wet	0.09208		87.1	40-140			
4,4'-DDE [2C]	0.084	0.0037	mg/Kg wet	0.09208		91.2	40-140			
4,4'-DDT	0.082	0.0037	mg/Kg wet	0.09208		89.1	40-140			
4,4'-DDT [2C]	0.084	0.0037	mg/Kg wet	0.09208		90.8	40-140			
Dieldrin	0.078	0.0037	mg/Kg wet	0.09208		84.5	40-140			
Dieldrin [2C]	0.083	0.0037	mg/Kg wet	0.09208		90.0	40-140			
Endosulfan I	0.074	0.0046	mg/Kg wet	0.09208		80.7	40-140			
Endosulfan I [2C]	0.081	0.0046	mg/Kg wet	0.09208		87.8	40-140			
Endosulfan II	0.075	0.0074	mg/Kg wet	0.09208		81.0	40-140			
Endosulfan II [2C]	0.080	0.0074	mg/Kg wet	0.09208		86.9	40-140			
Endosulfan Sulfate	0.068	0.0074	mg/Kg wet	0.09208		73.4	40-140			
Endosulfan Sulfate [2C]	0.076	0.0074	mg/Kg wet	0.09208		82.4	40-140			
Endrin	0.085	0.0074	mg/Kg wet	0.09208		92.2	40-140			
Endrin [2C]	0.084	0.0074	mg/Kg wet	0.09208		91.2	40-140			
Endrin Aldehyde	0.063	0.0074	mg/Kg wet	0.09208		68.3	40-140			
Endrin Aldehyde [2C]	0.070	0.0074	mg/Kg wet	0.09208		76.0	40-140			
Endrin Ketone	0.073	0.0074	mg/Kg wet	0.09208		79.1	40-140			
Endrin Ketone [2C]	0.072	0.0074	mg/Kg wet	0.09208		78.4	40-140			
Heptachlor	0.078	0.0046	mg/Kg wet	0.09208		84.8	40-140			
Heptachlor [2C]	0.081	0.0046	mg/Kg wet	0.09208		88.4	40-140			
Heptachlor Epoxide	0.076	0.0046	mg/Kg wet	0.09208		82.0	40-140			
Heptachlor Epoxide [2C]	0.079	0.0046	mg/Kg wet	0.09208		85.7	40-140			
Methoxychlor	0.082	0.046	mg/Kg wet	0.09208		88.6	40-140			
Methoxychlor [2C]	0.084	0.046	mg/Kg wet	0.09208		91.6	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1842		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.1842		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg wet	0.1842		75.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.1842		77.5	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392152 - SW-846 3546										
LCS Dup (B392152-BSD1)				Prepared: 11/13/24 Analyzed: 11/20/24						
alpha-Chlordane	0.079	0.0046	mg/Kg wet	0.09191		85.8	40-140	5.92	30	
alpha-Chlordane [2C]	0.085	0.0046	mg/Kg wet	0.09191		92.2	40-140	5.86	30	
gamma-Chlordane	0.083	0.0046	mg/Kg wet	0.09191		90.3	40-140	2.13	30	
gamma-Chlordane [2C]	0.084	0.0046	mg/Kg wet	0.09191		91.2	40-140	5.92	30	
Aldrin	0.077	0.0046	mg/Kg wet	0.09191		84.3	40-140	5.24	30	
Aldrin [2C]	0.083	0.0046	mg/Kg wet	0.09191		89.8	40-140	5.30	30	
alpha-BHC	0.080	0.0046	mg/Kg wet	0.09191		86.6	40-140	5.45	30	
alpha-BHC [2C]	0.082	0.0046	mg/Kg wet	0.09191		89.0	40-140	4.19	30	
beta-BHC	0.072	0.0046	mg/Kg wet	0.09191		78.1	40-140	2.88	30	
beta-BHC [2C]	0.077	0.0046	mg/Kg wet	0.09191		84.0	40-140	4.55	30	
delta-BHC	0.078	0.0046	mg/Kg wet	0.09191		84.9	40-140	7.02	30	
delta-BHC [2C]	0.080	0.0046	mg/Kg wet	0.09191		86.6	40-140	7.40	30	
gamma-BHC (Lindane)	0.075	0.0018	mg/Kg wet	0.09191		81.9	40-140	5.84	30	
gamma-BHC (Lindane) [2C]	0.079	0.0018	mg/Kg wet	0.09191		86.2	40-140	6.03	30	
4,4'-DDD	0.086	0.0037	mg/Kg wet	0.09191		93.7	40-140	5.07	30	
4,4'-DDD [2C]	0.089	0.0037	mg/Kg wet	0.09191		96.9	40-140	5.56	30	
4,4'-DDE	0.085	0.0037	mg/Kg wet	0.09191		92.6	40-140	5.86	30	
4,4'-DDE [2C]	0.089	0.0037	mg/Kg wet	0.09191		96.5	40-140	5.44	30	
4,4'-DDT	0.086	0.0037	mg/Kg wet	0.09191		93.1	40-140	4.22	30	
4,4'-DDT [2C]	0.086	0.0037	mg/Kg wet	0.09191		93.5	40-140	2.74	30	
Dieldrin	0.082	0.0037	mg/Kg wet	0.09191		89.3	40-140	5.24	30	
Dieldrin [2C]	0.088	0.0037	mg/Kg wet	0.09191		95.4	40-140	5.73	30	
Endosulfan I	0.079	0.0046	mg/Kg wet	0.09191		86.4	40-140	6.54	30	
Endosulfan I [2C]	0.086	0.0046	mg/Kg wet	0.09191		93.5	40-140	6.17	30	
Endosulfan II	0.079	0.0074	mg/Kg wet	0.09191		85.5	40-140	5.22	30	
Endosulfan II [2C]	0.085	0.0074	mg/Kg wet	0.09191		92.5	40-140	6.03	30	
Endosulfan Sulfate	0.073	0.0074	mg/Kg wet	0.09191		79.2	40-140	7.40	30	
Endosulfan Sulfate [2C]	0.082	0.0074	mg/Kg wet	0.09191		89.1	40-140	7.67	30	
Endrin	0.089	0.0074	mg/Kg wet	0.09191		97.3	40-140	5.23	30	
Endrin [2C]	0.088	0.0074	mg/Kg wet	0.09191		96.2	40-140	5.15	30	
Endrin Aldehyde	0.063	0.0074	mg/Kg wet	0.09191		68.8	40-140	0.510	30	
Endrin Aldehyde [2C]	0.072	0.0074	mg/Kg wet	0.09191		78.7	40-140	3.30	30	
Endrin Ketone	0.077	0.0074	mg/Kg wet	0.09191		83.3	40-140	4.92	30	
Endrin Ketone [2C]	0.076	0.0074	mg/Kg wet	0.09191		82.5	40-140	4.83	30	
Heptachlor	0.082	0.0046	mg/Kg wet	0.09191		89.5	40-140	5.28	30	
Heptachlor [2C]	0.086	0.0046	mg/Kg wet	0.09191		93.8	40-140	5.74	30	
Heptachlor Epoxide	0.080	0.0046	mg/Kg wet	0.09191		87.0	40-140	5.68	30	
Heptachlor Epoxide [2C]	0.084	0.0046	mg/Kg wet	0.09191		91.1	40-140	5.95	30	
Methoxychlor	0.085	0.046	mg/Kg wet	0.09191		92.0	40-140	3.57	30	
Methoxychlor [2C]	0.089	0.046	mg/Kg wet	0.09191		96.5	40-140	5.06	30	
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.1838		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.1838		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.144*		mg/Kg wet	0.1838		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.1838		80.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B392152 - SW-846 3546											
Matrix Spike (B392152-MS1)	**Source: 24K0481-07**			Prepared: 11/13/24 Analyzed: 11/20/24							
Aldrin	0.084	0.0053	mg/Kg dry	0.1063	ND	78.7	30-150				
Aldrin [2C]	0.091	0.0053	mg/Kg dry	0.1063	ND	85.2	30-150				
alpha-BHC	0.088	0.0053	mg/Kg dry	0.1063	ND	82.4	30-150				R-06
alpha-BHC [2C]	0.092	0.0053	mg/Kg dry	0.1063	ND	87.0	30-150				R-06
beta-BHC	0.079	0.0053	mg/Kg dry	0.1063	ND	74.1	30-150				
beta-BHC [2C]	0.085	0.0053	mg/Kg dry	0.1063	ND	80.1	30-150				
delta-BHC	0.076	0.0053	mg/Kg dry	0.1063	ND	71.7	30-150				R-06
delta-BHC [2C]	0.078	0.0053	mg/Kg dry	0.1063	ND	73.0	30-150				R-06
gamma-BHC (Lindane)	0.082	0.0021	mg/Kg dry	0.1063	ND	77.3	30-150				R-06
gamma-BHC (Lindane) [2C]	0.087	0.0021	mg/Kg dry	0.1063	ND	81.9	30-150				R-06
4,4'-DDD	0.091	0.0043	mg/Kg dry	0.1063	ND	85.5	30-150				
4,4'-DDD [2C]	0.096	0.0043	mg/Kg dry	0.1063	ND	89.8	30-150				
4,4'-DDE	0.090	0.0043	mg/Kg dry	0.1063	ND	84.5	30-150				
4,4'-DDE [2C]	0.094	0.0043	mg/Kg dry	0.1063	ND	88.5	30-150				
4,4'-DDT	0.088	0.0043	mg/Kg dry	0.1063	ND	82.6	30-150				
4,4'-DDT [2C]	0.090	0.0043	mg/Kg dry	0.1063	ND	85.0	30-150				
Dieldrin	0.087	0.0043	mg/Kg dry	0.1063	ND	81.6	30-150				
Dieldrin [2C]	0.093	0.0043	mg/Kg dry	0.1063	ND	87.6	30-150				
Endosulfan I	0.083	0.0053	mg/Kg dry	0.1063	ND	78.1	30-150				R-06
Endosulfan I [2C]	0.090	0.0053	mg/Kg dry	0.1063	ND	85.0	30-150				R-06
Endosulfan II	0.082	0.0085	mg/Kg dry	0.1063	ND	77.1	30-150				R-06
Endosulfan II [2C]	0.089	0.0085	mg/Kg dry	0.1063	ND	84.1	30-150				R-06
Endosulfan Sulfate	0.075	0.0085	mg/Kg dry	0.1063	ND	70.5	30-150				
Endosulfan Sulfate [2C]	0.085	0.0085	mg/Kg dry	0.1063	ND	79.6	30-150				
Endrin	0.093	0.0085	mg/Kg dry	0.1063	ND	87.9	30-150				
Endrin [2C]	0.093	0.0085	mg/Kg dry	0.1063	ND	87.5	30-150				
Endrin Aldehyde	0.085	0.0085	mg/Kg dry	0.1063	ND	80.1	30-150				R-06
Endrin Aldehyde [2C]	0.094	0.0085	mg/Kg dry	0.1063	ND	88.5	30-150				R-06
Endrin Ketone	0.082	0.0085	mg/Kg dry	0.1063	ND	76.7	30-150				
Endrin Ketone [2C]	0.082	0.0085	mg/Kg dry	0.1063	ND	76.8	30-150				
Heptachlor	0.089	0.0053	mg/Kg dry	0.1063	ND	83.3	30-150				
Heptachlor [2C]	0.093	0.0053	mg/Kg dry	0.1063	ND	87.8	30-150				
Heptachlor Epoxide	0.085	0.0053	mg/Kg dry	0.1063	ND	80.0	30-150				
Heptachlor Epoxide [2C]	0.089	0.0053	mg/Kg dry	0.1063	ND	83.8	30-150				
Methoxychlor	0.088	0.053	mg/Kg dry	0.1063	ND	82.3	30-150				
Methoxychlor [2C]	0.093	0.053	mg/Kg dry	0.1063	ND	87.3	30-150				
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg dry	0.2127		88.5	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg dry	0.2127		88.2	30-150				
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg dry	0.2127		76.3	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg dry	0.2127		79.0	30-150				
Matrix Spike Dup (B392152-MSD1)	**Source: 24K0481-07**			Prepared: 11/13/24 Analyzed: 11/20/24							
Aldrin	0.068	0.0053	mg/Kg dry	0.1064	ND	63.5	30-150	21.4		30	
Aldrin [2C]	0.073	0.0053	mg/Kg dry	0.1064	ND	68.4	30-150	21.8		30	
alpha-BHC	0.060	0.0053	mg/Kg dry	0.1064	ND	56.7	30-150	**36.8**	*	30	R-06
alpha-BHC [2C]	0.063	0.0053	mg/Kg dry	0.1064	ND	59.5	30-150	**37.4**	*	30	R-06
beta-BHC	0.066	0.0053	mg/Kg dry	0.1064	ND	61.6	30-150	18.4		30	
beta-BHC [2C]	0.070	0.0053	mg/Kg dry	0.1064	ND	65.9	30-150	19.5		30	
delta-BHC	0.039	0.0053	mg/Kg dry	0.1064	ND	37.0	30-150	**63.8**	*	30	R-06
delta-BHC [2C]	0.040	0.0053	mg/Kg dry	0.1064	ND	37.8	30-150	**63.4**	*	30	R-06
gamma-BHC (Lindane)	0.058	0.0021	mg/Kg dry	0.1064	ND	54.4	30-150	**34.7**	*	30	R-06
gamma-BHC (Lindane) [2C]	0.061	0.0021	mg/Kg dry	0.1064	ND	57.6	30-150	**34.6**	*	30	R-06

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B392152 - SW-846 3546											
Matrix Spike Dup (B392152-MSD1)	**Source: 24K0481-07**			Prepared: 11/13/24 Analyzed: 11/20/24							
4,4'-DDD	0.074	0.0043	mg/Kg dry	0.1064	ND	69.5	30-150	20.6		30	
4,4'-DDD [2C]	0.082	0.0043	mg/Kg dry	0.1064	ND	76.7	30-150	15.7		30	
4,4'-DDE	0.074	0.0043	mg/Kg dry	0.1064	ND	69.3	30-150	19.8		30	
4,4'-DDE [2C]	0.078	0.0043	mg/Kg dry	0.1064	ND	73.0	30-150	19.1		30	
4,4'-DDT	0.068	0.0043	mg/Kg dry	0.1064	ND	63.9	30-150	25.4		30	
4,4'-DDT [2C]	0.070	0.0043	mg/Kg dry	0.1064	ND	65.7	30-150	25.5		30	
Dieldrin	0.071	0.0043	mg/Kg dry	0.1064	ND	66.5	30-150	20.4		30	
Dieldrin [2C]	0.076	0.0043	mg/Kg dry	0.1064	ND	71.7	30-150	19.8		30	
Endosulfan I	0.051	0.0053	mg/Kg dry	0.1064	ND	47.5	30-150	**48.7**	*	30	R-06
Endosulfan I [2C]	0.055	0.0053	mg/Kg dry	0.1064	ND	52.0	30-150	**48.1**	*	30	R-06
Endosulfan II	0.046	0.0085	mg/Kg dry	0.1064	ND	42.9	30-150	**56.9**	*	30	R-06
Endosulfan II [2C]	0.050	0.0085	mg/Kg dry	0.1064	ND	47.3	30-150	**55.9**	*	30	R-06
Endosulfan Sulfate	0.058	0.0085	mg/Kg dry	0.1064	ND	54.7	30-150	25.2		30	
Endosulfan Sulfate [2C]	0.065	0.0085	mg/Kg dry	0.1064	ND	61.5	30-150	25.6		30	
Endrin	0.077	0.0085	mg/Kg dry	0.1064	ND	72.0	30-150	19.7		30	
Endrin [2C]	0.077	0.0085	mg/Kg dry	0.1064	ND	72.2	30-150	19.0		30	
Endrin Aldehyde	0.061	0.0085	mg/Kg dry	0.1064	ND	57.3	30-150	**33.0**	*	30	R-06
Endrin Aldehyde [2C]	0.067	0.0085	mg/Kg dry	0.1064	ND	63.1	30-150	**33.4**	*	30	R-06
Endrin Ketone	0.065	0.0085	mg/Kg dry	0.1064	ND	61.3	30-150	22.3		30	
Endrin Ketone [2C]	0.066	0.0085	mg/Kg dry	0.1064	ND	61.7	30-150	21.6		30	
Heptachlor	0.069	0.0053	mg/Kg dry	0.1064	ND	65.0	30-150	24.5		30	
Heptachlor [2C]	0.073	0.0053	mg/Kg dry	0.1064	ND	68.8	30-150	24.2		30	
Heptachlor Epoxide	0.070	0.0053	mg/Kg dry	0.1064	ND	65.3	30-150	20.1		30	
Heptachlor Epoxide [2C]	0.073	0.0053	mg/Kg dry	0.1064	ND	68.8	30-150	19.5		30	
Methoxychlor	0.067	0.053	mg/Kg dry	0.1064	ND	62.7	30-150	27.0		30	
Methoxychlor [2C]	0.072	0.053	mg/Kg dry	0.1064	ND	67.7	30-150	25.2		30	
Surrogate: Decachlorobiphenyl	*0.152*		mg/Kg dry	0.2129		71.4	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.150*		mg/Kg dry	0.2129		70.6	30-150				
Surrogate: Tetrachloro-m-xylene	*0.119*		mg/Kg dry	0.2129		55.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.126*		mg/Kg dry	0.2129		59.4	30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391978 - SW-846 3510C										
Blank (B391978-BLK1)				Prepared: 11/12/24 Analyzed: 11/14/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.51*		µg/L	4.000		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.37*		µg/L	4.000		59.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.76*		µg/L	4.000		44.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.77*		µg/L	4.000		44.3	30-150			
LCS (B391978-BS1)				Prepared: 11/12/24 Analyzed: 11/14/24						
Aroclor-1016	0.69	0.20	µg/L	1.000		68.5	40-140			
Aroclor-1016 [2C]	0.67	0.20	µg/L	1.000		67.3	40-140			
Aroclor-1260	0.82	0.20	µg/L	1.000		81.8	40-140			
Aroclor-1260 [2C]	0.80	0.20	µg/L	1.000		80.3	40-140			
Surrogate: Decachlorobiphenyl	*3.23*		µg/L	4.000		80.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.20*		µg/L	4.000		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*2.51*		µg/L	4.000		62.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.47*		µg/L	4.000		61.8	30-150			
LCS Dup (B391978-BSD1)				Prepared: 11/12/24 Analyzed: 11/14/24						
Aroclor-1016	0.75	0.20	µg/L	1.000		75.1	40-140	9.12	20	
Aroclor-1016 [2C]	0.72	0.20	µg/L	1.000		71.6	40-140	6.16	20	
Aroclor-1260	0.85	0.20	µg/L	1.000		85.4	40-140	4.22	20	
Aroclor-1260 [2C]	0.82	0.20	µg/L	1.000		81.8	40-140	1.80	20	
Surrogate: Decachlorobiphenyl	*3.28*		µg/L	4.000		81.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.23*		µg/L	4.000		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.62*		µg/L	4.000		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.60*		µg/L	4.000		64.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392153 - SW-846 3546										
Blank (B392153-BLK1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Aroclor-1016	ND	0.018	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1221	ND	0.018	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1232	ND	0.018	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1242	ND	0.018	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1248	ND	0.018	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1254	ND	0.018	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1260	ND	0.018	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1262	ND	0.018	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1268	ND	0.018	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.018	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.1840		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg wet	0.1840		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.125*		mg/Kg wet	0.1840		67.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.123*		mg/Kg wet	0.1840		67.1	30-150			
LCS (B392153-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Aroclor-1016	0.12	0.019	mg/Kg wet	0.1876		61.8	40-140			
Aroclor-1016 [2C]	0.12	0.019	mg/Kg wet	0.1876		65.3	40-140			
Aroclor-1260	0.13	0.019	mg/Kg wet	0.1876		71.3	40-140			
Aroclor-1260 [2C]	0.15	0.019	mg/Kg wet	0.1876		79.2	40-140			
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.1876		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg wet	0.1876		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.125*		mg/Kg wet	0.1876		66.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.123*		mg/Kg wet	0.1876		65.8	30-150			
LCS Dup (B392153-BSD1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Aroclor-1016	0.12	0.019	mg/Kg wet	0.1880		65.4	40-140	5.62	30	
Aroclor-1016 [2C]	0.12	0.019	mg/Kg wet	0.1880		64.4	40-140	1.45	30	
Aroclor-1260	0.14	0.019	mg/Kg wet	0.1880		73.3	40-140	2.80	30	
Aroclor-1260 [2C]	0.15	0.019	mg/Kg wet	0.1880		81.7	40-140	3.08	30	
Surrogate: Decachlorobiphenyl	*0.145*		mg/Kg wet	0.1880		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.1880		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.136*		mg/Kg wet	0.1880		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.133*		mg/Kg wet	0.1880		70.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392153 - SW-846 3546										
Matrix Spike (B392153-MS1)	**Source: 24K0481-07**			Prepared: 11/13/24 Analyzed: 11/14/24						
Aroclor-1016	0.14	0.082	mg/Kg dry	0.2046	ND	66.0	40-140			
Aroclor-1016 [2C]	0.15	0.082	mg/Kg dry	0.2046	ND	74.3	40-140			
Aroclor-1260	0.14	0.082	mg/Kg dry	0.2046	ND	70.2	40-140			
Aroclor-1260 [2C]	0.17	0.082	mg/Kg dry	0.2046	ND	83.0	40-140			
Surrogate: Decachlorobiphenyl	*0.130*		mg/Kg dry	0.2046		63.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.160*		mg/Kg dry	0.2046		78.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.122*		mg/Kg dry	0.2046		59.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.137*		mg/Kg dry	0.2046		66.9	30-150			
Matrix Spike Dup (B392153-MSD1)	**Source: 24K0481-07**			Prepared: 11/13/24 Analyzed: 11/14/24						
Aroclor-1016	0.15	0.082	mg/Kg dry	0.2046	ND	71.5	40-140	7.94	30	
Aroclor-1016 [2C]	0.16	0.082	mg/Kg dry	0.2046	ND	78.9	40-140	5.99	30	
Aroclor-1260	0.16	0.082	mg/Kg dry	0.2046	ND	78.3	40-140	10.9	30	
Aroclor-1260 [2C]	0.19	0.082	mg/Kg dry	0.2046	ND	93.4	40-140	11.9	30	
Surrogate: Decachlorobiphenyl	*0.147*		mg/Kg dry	0.2046		71.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg dry	0.2046		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.134*		mg/Kg dry	0.2046		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.153*		mg/Kg dry	0.2046		74.6	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391774 - SW-846 3050B										
Blank (B391774-BLK1)				Prepared: 11/08/24 Analyzed: 11/09/24						
Arsenic	ND	3.3	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Calcium	ND	16	mg/Kg wet							
Chromium	ND	0.66	mg/Kg wet							
Cobalt	ND	1.6	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	16	mg/Kg wet							
Lead	ND	0.49	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.66	mg/Kg wet							
Potassium	ND	160	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Blank (B391774-BLK2)				Prepared: 11/08/24 Analyzed: 11/12/24						
Aluminum	ND	16	mg/Kg wet							
Antimony	ND	1.6	mg/Kg wet							
Magnesium	ND	16	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Vanadium	ND	0.66	mg/Kg wet							
Zinc	ND	0.66	mg/Kg wet							
LCS (B391774-BS1)				Prepared: 11/08/24 Analyzed: 11/09/24						
Arsenic	227	9.4	mg/Kg wet	242.0		93.9	81.8-118.6			
Barium	321	4.7	mg/Kg wet	295.0		109	81.7-118.3			
Beryllium	174	0.47	mg/Kg wet	160.0		108	82.5-117.5			
Cadmium	80.2	0.94	mg/Kg wet	84.30		95.1	82.2-117.8			
Calcium	5510	47	mg/Kg wet	5270		105	82.5-117.5			
Chromium	215	1.9	mg/Kg wet	213.0		101	81.2-119.2			
Cobalt	137	4.7	mg/Kg wet	137.0		100	83.2-117.5			
Copper	197	3.8	mg/Kg wet	195.0		101	83.1-116.9			
Iron	6250	47	mg/Kg wet	6650		94.0	58.6-141.5			
Lead	191	1.4	mg/Kg wet	194.0		98.4	82-118.6			
Manganese	267	0.94	mg/Kg wet	264.0		101	80.7-118.9			
Nickel	298	1.9	mg/Kg wet	298.0		99.9	82.2-117.8			
Potassium	2080	470	mg/Kg wet	2010		104	70.6-129.4			
Selenium	265	9.4	mg/Kg wet	272.0		97.2	80.1-119.5			
Thallium	103	4.7	mg/Kg wet	108.0		95.6	80-119.4			
LCS (B391774-BS2)				Prepared: 11/08/24 Analyzed: 11/12/24						
Aluminum	5570	47	mg/Kg wet	5940		93.7	46.1-153.9			
Antimony	94.3	4.7	mg/Kg wet	121.0		78.0	2.1-200.8			
Magnesium	1720	47	mg/Kg wet	1860		92.5	75.3-124.2			
Silver	76.6	0.94	mg/Kg wet	76.70		99.8	79.5-120.5			
Sodium	395	470	mg/Kg wet	406.0		97.4	74.9-124.9			J
Vanadium	165	1.9	mg/Kg wet	169.0		97.4	78.1-122.5			
Zinc	229	1.9	mg/Kg wet	236.0		96.9	80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391774 - SW-846 3050B											
LCS Dup (B391774-BSD1)				Prepared: 11/08/24 Analyzed: 11/09/24							
Arsenic	226	9.3	mg/Kg wet	242.0		93.4		81.8-118.6	0.606	30	
Barium	302	4.7	mg/Kg wet	295.0		102		81.7-118.3	6.00	20	
Beryllium	175	0.47	mg/Kg wet	160.0		109		82.5-117.5	0.930	30	
Cadmium	81.1	0.93	mg/Kg wet	84.30		96.2		82.2-117.8	1.15	20	
Calcium	5500	47	mg/Kg wet	5270		104		82.5-117.5	0.252	30	
Chromium	220	1.9	mg/Kg wet	213.0		103		81.2-119.2	2.17	30	
Cobalt	139	4.7	mg/Kg wet	137.0		101		83.2-117.5	1.14	20	
Copper	202	3.7	mg/Kg wet	195.0		103		83.1-116.9	2.54	30	
Iron	6230	47	mg/Kg wet	6650		93.7		58.6-141.5	0.391	30	
Lead	188	1.4	mg/Kg wet	194.0		97.0		82-118.6	1.42	30	
Manganese	262	0.93	mg/Kg wet	264.0		99.2		80.7-118.9	1.79	30	
Nickel	302	1.9	mg/Kg wet	298.0		101		82.2-117.8	1.46	30	
Potassium	2060	470	mg/Kg wet	2010		103		70.6-129.4	0.835	30	
Selenium	264	9.3	mg/Kg wet	272.0		97.1		80.1-119.5	0.136	30	
Thallium	104	4.7	mg/Kg wet	108.0		96.1		80-119.4	0.573	30	
LCS Dup (B391774-BSD2)				Prepared: 11/08/24 Analyzed: 11/12/24							
Aluminum	5740	47	mg/Kg wet	5940		96.6		46.1-153.9	3.00	30	
Antimony	95.0	4.7	mg/Kg wet	121.0		78.5		2.1-200.8	0.724	30	
Magnesium	1720	47	mg/Kg wet	1860		92.6		75.3-124.2	0.127	30	
Silver	76.9	0.93	mg/Kg wet	76.70		100		79.5-120.5	0.471	30	
Sodium	417	470	mg/Kg wet	406.0		103		74.9-124.9	5.23	30	J
Vanadium	167	1.9	mg/Kg wet	169.0		98.9		78.1-122.5	1.50	30	
Zinc	230	1.9	mg/Kg wet	236.0		97.3		80.1-120.3	0.462	30	
Matrix Spike (B391774-MS1)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/09/24							
Arsenic	17.6	3.5	mg/Kg dry	17.26	2.55	87.3		75-125			
Barium	56.0	1.7	mg/Kg dry	17.26	44.9	**64.3**	*	75-125			MS-07
Beryllium	18.4	0.17	mg/Kg dry	17.26	0.364	104		75-125			
Cadmium	16.4	0.35	mg/Kg dry	17.26	ND	94.8		75-125			
Calcium	5100	17	mg/Kg dry	138.0	9060	**-2870**	*	75-125			MS-19
Chromium	27.8	0.69	mg/Kg dry	17.26	13.8	81.2		75-125			
Cobalt	20.7	1.7	mg/Kg dry	17.26	4.16	95.6		75-125			
Copper	48.4	1.4	mg/Kg dry	34.51	12.8	103		75-125			
Lead	20.6	0.52	mg/Kg dry	17.26	4.94	90.9		75-125			
Manganese	232	0.35	mg/Kg dry	17.26	257	**-146**	*	75-125			MS-19
Nickel	24.9	0.69	mg/Kg dry	17.26	9.18	91.0		75-125			
Potassium	1320	170	mg/Kg dry	138.0	1230	**64.8**	*	75-125			MS-19
Selenium	13.7	3.5	mg/Kg dry	17.26	ND	79.6		75-125			
Thallium	15.9	1.7	mg/Kg dry	17.26	ND	92.0		75-125			
Matrix Spike (B391774-MS2)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/12/24							
Aluminum	5920	17	mg/Kg dry	17.26	5600	**1840**	*	75-125			MS-19
Antimony	6.53	1.7	mg/Kg dry	17.26	ND	**37.9**	*	75-125			MS-07A
Magnesium	2970	17	mg/Kg dry	138.0	3200	**-164**	*	75-125			MS-19
Silver	15.9	0.35	mg/Kg dry	17.26	ND	92.0		75-125			
Vanadium	36.1	0.69	mg/Kg dry	17.26	18.3	103		75-125			
Zinc	54.1	0.69	mg/Kg dry	34.51	21.1	95.6		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391774 - SW-846 3050B												
Matrix Spike (B391774-MS3)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/19/24								
Iron	12400	170	mg/Kg dry	138.0	11400	**692**	*	75-125				MS-19
Matrix Spike Dup (B391774-MSD1)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/09/24								
Arsenic	18.4	3.6	mg/Kg dry	18.04	2.55	87.7		75-125	4.15		35	
Barium	66.1	1.8	mg/Kg dry	18.04	44.9	117		75-125	16.4		35	
Beryllium	18.7	0.18	mg/Kg dry	18.04	0.364	102		75-125	1.75		35	
Cadmium	17.2	0.36	mg/Kg dry	18.04	ND	95.3		75-125	4.93		35	
Calcium	7650	18	mg/Kg dry	144.3	9060	**-973**	*	75-125	**40.1**	*	35	MS-19
Chromium	38.5	0.72	mg/Kg dry	18.04	13.8	**137**	*	75-125	32.2		35	MS-22
Cobalt	21.7	1.8	mg/Kg dry	18.04	4.16	97.0		75-125	4.75		35	
Copper	54.6	1.4	mg/Kg dry	36.07	12.8	116		75-125	12.0		35	
Lead	21.1	0.54	mg/Kg dry	18.04	4.94	89.8		75-125	2.41		35	
Manganese	304	0.36	mg/Kg dry	18.04	257	**263**	*	75-125	27.1		35	MS-19
Nickel	29.8	0.72	mg/Kg dry	18.04	9.18	114		75-125	17.9		35	
Potassium	1600	180	mg/Kg dry	144.3	1230	**260**	*	75-125	19.6		35	MS-19
Selenium	14.1	3.6	mg/Kg dry	18.04	ND	78.1		75-125	2.51		35	
Thallium	16.0	1.8	mg/Kg dry	18.04	ND	88.6		75-125	0.671		35	
Matrix Spike Dup (B391774-MSD2)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/12/24								
Aluminum	7020	18	mg/Kg dry	18.04	5600	**7860**	*	75-125	17.0		35	MS-19
Antimony	6.40	1.8	mg/Kg dry	18.04	ND	**35.5**	*	75-125	2.01		35	MS-07A
Magnesium	3380	18	mg/Kg dry	144.3	3200	**128**	*	75-125	13.0		35	MS-19
Silver	16.6	0.36	mg/Kg dry	18.04	ND	92.3		75-125	4.71		35	
Vanadium	39.9	0.72	mg/Kg dry	18.04	18.3	120		75-125	10.1		35	
Zinc	57.5	0.72	mg/Kg dry	36.07	21.1	101		75-125	5.96		35	
Matrix Spike Dup (B391774-MSD3)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/19/24								
Iron	14200	180	mg/Kg dry	144.3	11400	**1890**	*	75-125	13.3		35	MS-19
Post Spike (B391774-PS1)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/09/24								
Arsenic	1.84		mg/L	2.000	0.0702	88.7		75-125				
Barium	3.07		mg/L	2.000	1.24	91.9		75-125				
Beryllium	2.03		mg/L	2.000	0.0100	101		75-125				
Cadmium	1.84		mg/L	2.000	0.00207	91.7		75-125				
Calcium	262		mg/L	16.00	249	80.4		75-125				
Chromium	2.25		mg/L	2.000	0.379	93.6		75-125				
Cobalt	1.89		mg/L	2.000	0.114	89.0		75-125				
Copper	4.31		mg/L	4.000	0.353	99.0		75-125				
Lead	1.87		mg/L	2.000	0.136	86.5		75-125				
Manganese	8.87		mg/L	2.000	7.06	90.1		75-125				
Nickel	2.00		mg/L	2.000	0.252	87.6		75-125				
Potassium	48.3		mg/L	16.00	33.7	90.9		75-125				
Selenium	1.82		mg/L	2.000	-0.0316	91.2		75-125				
Thallium	1.85		mg/L	2.000	-0.0204	92.7		75-125				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391774 - SW-846 3050B										
Dilution Check (B391774-SRL1)	**Source: 24K0481-07**			Prepared: 11/08/24 Analyzed: 11/09/24						
Arsenic	ND	18	mg/Kg dry		ND				20	
Barium	43.5	9.1	mg/Kg dry		44.9			3.30	20	
Beryllium	0.303	0.91	mg/Kg dry		0.364			18.3	20	J
Cadmium	ND	1.8	mg/Kg dry		ND				20	
Calcium	8910	91	mg/Kg dry		9060			1.59	20	
Chromium	13.4	3.6	mg/Kg dry		13.8			3.02	20	
Cobalt	4.39	9.1	mg/Kg dry		4.16			5.17	20	J
Copper	11.8	7.3	mg/Kg dry		12.8			7.95	20	
Lead	5.65	2.7	mg/Kg dry		4.94			13.5	20	
Manganese	256	1.8	mg/Kg dry		257			0.250	20	
Nickel	9.43	3.6	mg/Kg dry		9.18			2.73	20	
Potassium	1150	910	mg/Kg dry		1230			6.85	20	
Selenium	ND	18	mg/Kg dry		ND				20	
Thallium	ND	9.1	mg/Kg dry		ND				20	
Batch B391801 - SW-846 3005A										
Blank (B391801-BLK1)				Prepared: 11/11/24 Analyzed: 11/13/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Lead	0.0061	0.010	mg/L							J
Magnesium	0.051	0.050	mg/L							B
Manganese	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B391801-BLK2)				Prepared: 11/11/24 Analyzed: 11/14/24						
Calcium	ND	0.50	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Nickel	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Zinc	0.0085	0.010	mg/L							B, J

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391801 - SW-846 3005A										
Blank (B391801-BLK3)				Prepared: 11/11/24 Analyzed: 11/19/24						
Cadmium	ND	0.0040	mg/L							
LCS (B391801-BS1)				Prepared: 11/11/24 Analyzed: 11/13/24						
Aluminum	0.521	0.050	mg/L	0.5000		104	80-120			
Antimony	0.534	0.050	mg/L	0.5000		107	80-120			
Arsenic	0.492	0.010	mg/L	0.5000		98.4	80-120			
Barium	0.515	0.050	mg/L	0.5000		103	80-120			
Beryllium	0.536	0.0040	mg/L	0.5000		107	80-120			
Chromium	0.529	0.010	mg/L	0.5000		106	80-120			
Cobalt	0.537	0.010	mg/L	0.5000		107	80-120			
Lead	0.547	0.010	mg/L	0.5000		109	80-120			
Magnesium	4.03	0.050	mg/L	4.000		101	80-120			B
Manganese	0.516	0.010	mg/L	0.5000		103	80-120			
Potassium	4.03	2.0	mg/L	4.000		101	80-120			
Selenium	0.526	0.050	mg/L	0.5000		105	80-120			
Silver	0.548	0.010	mg/L	0.5000		110	80-120			
Vanadium	0.547	0.010	mg/L	0.5000		109	80-120			
Zinc	1.10	0.010	mg/L	1.000		110	80-120			
LCS (B391801-BS2)				Prepared: 11/11/24 Analyzed: 11/14/24						
Calcium	4.18	0.50	mg/L	4.000		104	80-120			
Copper	0.993	0.010	mg/L	1.000		99.3	80-120			
Iron	4.20	0.050	mg/L	4.000		105	80-120			
Nickel	0.518	0.010	mg/L	0.5000		104	80-120			
Sodium	3.84	2.0	mg/L	4.000		95.9	80-120			
Thallium	0.493	0.050	mg/L	0.5000		98.7	80-120			
LCS (B391801-BS3)				Prepared: 11/11/24 Analyzed: 11/19/24						
Cadmium	0.516	0.0040	mg/L	0.5000		103	80-120			
LCS Dup (B391801-BSD1)				Prepared: 11/11/24 Analyzed: 11/13/24						
Aluminum	0.510	0.050	mg/L	0.5000		102	80-120	2.11	30	
Antimony	0.531	0.050	mg/L	0.5000		106	80-120	0.445	20	
Arsenic	0.488	0.010	mg/L	0.5000		97.5	80-120	0.924	20	
Barium	0.504	0.050	mg/L	0.5000		101	80-120	2.20	20	
Beryllium	0.532	0.0040	mg/L	0.5000		106	80-120	0.747	20	
Chromium	0.517	0.010	mg/L	0.5000		103	80-120	2.31	20	
Cobalt	0.523	0.010	mg/L	0.5000		105	80-120	2.76	20	
Lead	0.538	0.010	mg/L	0.5000		108	80-120	1.66	20	
Magnesium	3.94	0.050	mg/L	4.000		98.6	80-120	2.25	20	B
Manganese	0.506	0.010	mg/L	0.5000		101	80-120	2.09	20	
Potassium	3.95	2.0	mg/L	4.000		98.9	80-120	1.89	20	
Selenium	0.520	0.050	mg/L	0.5000		104	80-120	1.12	20	
Silver	0.531	0.010	mg/L	0.5000		106	80-120	3.07	20	
Vanadium	0.533	0.010	mg/L	0.5000		107	80-120	2.48	20	
Zinc	1.07	0.010	mg/L	1.000		107	80-120	2.52	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391801 - SW-846 3005A										
LCS Dup (B391801-BSD2)				Prepared: 11/11/24 Analyzed: 11/14/24						
Calcium	4.06	0.50	mg/L	4.000		102	80-120	2.81	20	
Copper	0.993	0.010	mg/L	1.000		99.3	80-120	0.00640	20	
Iron	4.12	0.050	mg/L	4.000		103	80-120	1.99	20	
Nickel	0.517	0.010	mg/L	0.5000		103	80-120	0.271	30	
Sodium	4.00	2.0	mg/L	4.000		100	80-120	4.17	20	
Thallium	0.489	0.050	mg/L	0.5000		97.8	80-120	0.865	20	
LCS Dup (B391801-BSD3)				Prepared: 11/11/24 Analyzed: 11/19/24						
Cadmium	0.523	0.0040	mg/L	0.5000		105	80-120	1.37	20	
Dilution Check (B391801-SRL1)		**Source: 24K0395-01RE1**		Prepared: 11/11/24 Analyzed: 11/13/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Lead	0.0316	0.050	mg/L		ND				20	J
Magnesium	57.8	0.25	mg/L		59.0			2.10	20	B
Manganese	1.59	0.050	mg/L		1.54			2.90	20	
Potassium	11.3	10	mg/L		11.6			3.01	20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	
Batch B391808 - SW-846 3050B										
Blank (B391808-BLK1)				Prepared: 11/08/24 Analyzed: 11/12/24						
Arsenic	ND	3.2	mg/Kg wet							
Blank (B391808-BLK2)				Prepared: 11/08/24 Analyzed: 11/12/24						
Aluminum	ND	16	mg/Kg wet							
Antimony	ND	1.6	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	0.27	0.32	mg/Kg wet							J
Calcium	ND	16	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
Cobalt	ND	1.6	mg/Kg wet							
Iron	ND	16	mg/Kg wet							
Magnesium	ND	16	mg/Kg wet							
Manganese	ND	0.32	mg/Kg wet							
Nickel	ND	0.64	mg/Kg wet							
Potassium	ND	160	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391808 - SW-846 3050B										
Blank (B391808-BLK3)				Prepared: 11/08/24 Analyzed: 11/14/24						
Lead	ND	0.48	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Zinc	1.2	0.64	mg/Kg wet							B-07
Blank (B391808-BLK4)				Prepared: 11/08/24 Analyzed: 11/15/24						
Copper	ND	1.3	mg/Kg wet							
LCS (B391808-BS1)				Prepared: 11/08/24 Analyzed: 11/12/24						
Arsenic	208	9.7	mg/Kg wet	242.0		85.9	81.8-118.6			
LCS (B391808-BS2)				Prepared: 11/08/24 Analyzed: 11/12/24						
Aluminum	5430	48	mg/Kg wet	5940		91.3	46.1-153.9			
Antimony	84.7	4.8	mg/Kg wet	121.0		70.0	2.1-200.8			
Barium	275	4.8	mg/Kg wet	295.0		93.1	81.7-118.3			
Beryllium	168	0.48	mg/Kg wet	160.0		105	82.5-117.5			
Cadmium	79.6	0.97	mg/Kg wet	84.30		94.4	82.2-117.8			
Calcium	5070	48	mg/Kg wet	5270		96.1	82.5-117.5			
Chromium	210	1.9	mg/Kg wet	213.0		98.4	81.2-119.2			
Cobalt	131	4.8	mg/Kg wet	137.0		95.4	83.2-117.5			
Iron	5980	48	mg/Kg wet	6650		90.0	58.6-141.5			
Magnesium	1680	48	mg/Kg wet	1860		90.1	75.3-124.2			
Manganese	256	0.97	mg/Kg wet	264.0		96.9	80.7-118.9			
Nickel	269	1.9	mg/Kg wet	298.0		90.4	82.2-117.8			
Potassium	1980	480	mg/Kg wet	2010		98.4	70.6-129.4			
Selenium	234	9.7	mg/Kg wet	272.0		86.1	80.1-119.5			
Silver	82.6	0.97	mg/Kg wet	76.70		108	79.5-120.5			
Sodium	385	480	mg/Kg wet	406.0		94.9	74.9-124.9			J
Vanadium	177	1.9	mg/Kg wet	169.0		105	78.1-122.5			
LCS (B391808-BS4)				Prepared: 11/08/24 Analyzed: 11/14/24						
Copper	222	3.9	mg/Kg wet	195.0		114	83.1-116.9			
Lead	177	1.5	mg/Kg wet	194.0		91.3	82-118.6			
Thallium	98.9	4.8	mg/Kg wet	108.0		91.5	80-119.4			
Zinc	222	1.9	mg/Kg wet	236.0		94.1	80.1-120.3			B
LCS Dup (B391808-BSD1)				Prepared: 11/08/24 Analyzed: 11/12/24						
Arsenic	205	9.6	mg/Kg wet	242.0		84.7	81.8-118.6	1.41	30	
LCS Dup (B391808-BSD2)				Prepared: 11/08/24 Analyzed: 11/12/24						
Aluminum	5150	48	mg/Kg wet	5940		86.6	46.1-153.9	5.27	30	
Antimony	80.9	4.8	mg/Kg wet	121.0		66.8	2.1-200.8	4.57	30	
Barium	261	4.8	mg/Kg wet	295.0		88.4	81.7-118.3	5.16	20	
Beryllium	160	0.48	mg/Kg wet	160.0		100	82.5-117.5	4.94	30	
Cadmium	79.7	0.96	mg/Kg wet	84.30		94.5	82.2-117.8	0.126	20	
Calcium	4880	48	mg/Kg wet	5270		92.6	82.5-117.5	3.76	30	
Chromium	204	1.9	mg/Kg wet	213.0		95.9	81.2-119.2	2.62	30	
Cobalt	129	4.8	mg/Kg wet	137.0		94.0	83.2-117.5	1.39	20	
Iron	5740	48	mg/Kg wet	6650		86.4	58.6-141.5	4.09	30	
Magnesium	1620	48	mg/Kg wet	1860		87.3	75.3-124.2	3.21	30	
Manganese	242	0.96	mg/Kg wet	264.0		91.5	80.7-118.9	5.73	30	
Nickel	263	1.9	mg/Kg wet	298.0		88.3	82.2-117.8	2.37	30	
Potassium	1870	480	mg/Kg wet	2010		93.2	70.6-129.4	5.48	30	
Selenium	230	9.6	mg/Kg wet	272.0		84.4	80.1-119.5	1.98	30	
Silver	80.2	0.96	mg/Kg wet	76.70		105	79.5-120.5	2.86	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391808 - SW-846 3050B											
LCS Dup (B391808-BSD2)				Prepared: 11/08/24 Analyzed: 11/12/24							
Sodium	374	480	mg/Kg wet	406.0		92.0		74.9-124.9	3.11	30	J
Vanadium	171	1.9	mg/Kg wet	169.0		101		78.1-122.5	3.42	30	
LCS Dup (B391808-BSD4)				Prepared: 11/08/24 Analyzed: 11/14/24							
Copper	213	3.8	mg/Kg wet	195.0		109		83.1-116.9	4.15	30	
Lead	176	1.4	mg/Kg wet	194.0		90.5		82-118.6	0.926	30	
Thallium	98.6	4.8	mg/Kg wet	108.0		91.3		80-119.4	0.206	30	
Zinc	216	1.9	mg/Kg wet	236.0		91.7		80.1-120.3	2.58	30	B
Duplicate (B391808-DUP1)		**Source: 24K0481-01**		Prepared: 11/08/24 Analyzed: 11/12/24							
Aluminum	7520	17	mg/Kg dry		6510				14.5	35	
Antimony	ND	1.7	mg/Kg dry		ND				NC	35	
Arsenic	2.61	3.3	mg/Kg dry		1.91				31.0	35	J
Barium	63.4	1.7	mg/Kg dry		45.8				32.2	35	
Beryllium	0.480	0.17	mg/Kg dry		0.407				16.6	35	
Cadmium	0.238	0.33	mg/Kg dry		0.221				7.39	35	J
Calcium	2060	17	mg/Kg dry		1730				17.2	35	
Chromium	16.8	0.67	mg/Kg dry		14.1				17.8	35	
Cobalt	6.45	1.7	mg/Kg dry		5.69				12.4	35	
Iron	14800	17	mg/Kg dry		12100				19.8	35	
Magnesium	3740	17	mg/Kg dry		3540				5.57	35	
Manganese	382	0.33	mg/Kg dry		268				35.0	35	
Nickel	18.2	0.67	mg/Kg dry		15.5				15.8	35	
Potassium	1700	170	mg/Kg dry		1390				20.3	35	
Selenium	ND	3.3	mg/Kg dry		ND				NC	35	
Silver	ND	0.33	mg/Kg dry		ND				NC	35	
Sodium	895	170	mg/Kg dry		762				16.1	35	
Vanadium	22.3	0.67	mg/Kg dry		18.3				19.7	35	
Duplicate (B391808-DUP2)		**Source: 24K0481-01**		Prepared: 11/08/24 Analyzed: 11/14/24							
Copper	25.5	1.3	mg/Kg dry		19.4				27.2	35	
Lead	6.63	0.50	mg/Kg dry		5.50				18.6	35	
Thallium	ND	1.7	mg/Kg dry		ND				NC	35	
Zinc	35.5	0.67	mg/Kg dry		29.9				16.9	35	B-07, B
Matrix Spike (B391808-MS1)		**Source: 24K0481-01**		Prepared: 11/08/24 Analyzed: 11/12/24							
Aluminum	7940	18	mg/Kg dry	18.34	6510	**7840**	*	75-125			MS-19
Antimony	4.92	1.8	mg/Kg dry	18.34	ND	**26.8**	*	75-125			MS-07
Arsenic	17.9	3.7	mg/Kg dry	18.34	1.91	87.3		75-125			
Barium	85.1	1.8	mg/Kg dry	18.34	45.8	**214**	*	75-125			MS-11
Beryllium	19.1	0.18	mg/Kg dry	18.34	0.407	102		75-125			
Cadmium	17.4	0.37	mg/Kg dry	18.34	0.221	93.7		75-125			
Calcium	2200	18	mg/Kg dry	146.7	1730	**318**	*	75-125			MS-19
Chromium	35.5	0.73	mg/Kg dry	18.34	14.1	117		75-125			
Cobalt	23.2	1.8	mg/Kg dry	18.34	5.69	95.2		75-125			
Iron	15400	18	mg/Kg dry	146.7	12100	**2270**	*	75-125			MS-19
Magnesium	4430	18	mg/Kg dry	146.7	3540	**609**	*	75-125			MS-19
Manganese	415	0.37	mg/Kg dry	18.34	268	**799**	*	75-125			MS-19
Nickel	38.9	0.73	mg/Kg dry	18.34	15.5	**127**	*	75-125			MS-11
Potassium	1920	180	mg/Kg dry	146.7	1390	**362**	*	75-125			MS-19
Selenium	13.0	3.7	mg/Kg dry	18.34	ND	**70.7**	*	75-125			MS-07
Silver	19.4	0.37	mg/Kg dry	18.34	ND	106		75-125			
Sodium	1040	180	mg/Kg dry	146.7	762	**192**	*	75-125			MS-19

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391808 - SW-846 3050B										
Matrix Spike (B391808-MS1)	**Source: 24K0481-01**			Prepared: 11/08/24 Analyzed: 11/12/24						
Vanadium	40.9	0.73	mg/Kg dry	18.34	18.3	123	75-125			
Matrix Spike (B391808-MS2)	**Source: 24K0481-01**			Prepared: 11/08/24 Analyzed: 11/14/24						
Copper	63.6	1.5	mg/Kg dry	36.68	19.4	121	75-125			
Lead	21.9	0.55	mg/Kg dry	18.34	5.50	89.4	75-125			
Thallium	17.2	1.8	mg/Kg dry	18.34	ND	94.1	75-125			
Zinc	66.7	0.73	mg/Kg dry	36.68	29.9	100	75-125			B
Batch B392133 - SW-846 3050B										
Blank (B392133-BLK1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.3	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.66	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Lead	ND	0.49	mg/Kg wet							
Nickel	ND	0.66	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Zinc	ND	0.66	mg/Kg wet							
Blank (B392133-BLK2)				Prepared: 11/13/24 Analyzed: 11/15/24						
Silver	ND	0.33	mg/Kg wet							
LCS (B392133-BS1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Antimony	94.5	4.8	mg/Kg wet	121.0		78.1	2.1-200.8			
Arsenic	207	9.7	mg/Kg wet	242.0		85.6	81.8-118.6			
Beryllium	161	0.48	mg/Kg wet	160.0		101	82.5-117.5			
Cadmium	80.2	0.97	mg/Kg wet	84.30		95.1	82.2-117.8			
Chromium	222	1.9	mg/Kg wet	213.0		104	81.2-119.2			
Copper	207	3.9	mg/Kg wet	195.0		106	83.1-116.9			
Lead	171	1.5	mg/Kg wet	194.0		88.1	82-118.6			
Nickel	279	1.9	mg/Kg wet	298.0		93.7	82.2-117.8			
Selenium	233	9.7	mg/Kg wet	272.0		85.8	80.1-119.5			
Sodium	385	480	mg/Kg wet	406.0		94.9	74.9-124.9			J
Thallium	108	4.8	mg/Kg wet	108.0		100	80-119.4			
Zinc	208	1.9	mg/Kg wet	236.0		88.2	80.1-120.3			
LCS (B392133-BS2)				Prepared: 11/13/24 Analyzed: 11/15/24						
Silver	76.3	0.97	mg/Kg wet	76.70		99.5	79.5-120.5			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392133 - SW-846 3050B										
LCS Dup (B392133-BSD1)				Prepared: 11/13/24 Analyzed: 11/14/24						
Antimony	99.6	4.9	mg/Kg wet	121.0		82.3	2.1-200.8	5.19	30	
Arsenic	203	9.7	mg/Kg wet	242.0		83.8	81.8-118.6	2.16	30	
Beryllium	152	0.49	mg/Kg wet	160.0		95.3	82.5-117.5	5.58	30	
Cadmium	77.8	0.97	mg/Kg wet	84.30		92.3	82.2-117.8	3.02	20	
Chromium	213	1.9	mg/Kg wet	213.0		99.9	81.2-119.2	4.32	30	
Copper	200	3.9	mg/Kg wet	195.0		103	83.1-116.9	3.28	30	
Lead	169	1.5	mg/Kg wet	194.0		87.1	82-118.6	1.07	30	
Nickel	271	1.9	mg/Kg wet	298.0		91.1	82.2-117.8	2.88	30	
Selenium	230	9.7	mg/Kg wet	272.0		84.4	80.1-119.5	1.57	30	
Sodium	373	490	mg/Kg wet	406.0		91.8	74.9-124.9	3.30	30	J
Thallium	105	4.9	mg/Kg wet	108.0		97.5	80-119.4	2.99	30	
Zinc	205	1.9	mg/Kg wet	236.0		86.9	80.1-120.3	1.46	30	
LCS Dup (B392133-BSD2)				Prepared: 11/13/24 Analyzed: 11/15/24						
Silver	74.6	0.97	mg/Kg wet	76.70		97.2	79.5-120.5	2.33	30	
Matrix Spike (B392133-MS1)		**Source: 24K0481-07RE1**		Prepared: 11/13/24 Analyzed: 11/14/24						
Arsenic	16.3	3.5	mg/Kg dry	17.64	1.71	82.7	75-125			
Beryllium	17.2	0.18	mg/Kg dry	17.64	0.282	96.0	75-125			
Cadmium	15.9	0.35	mg/Kg dry	17.64	ND	90.1	75-125			
Chromium	27.1	0.71	mg/Kg dry	17.64	9.24	101	75-125			
Copper	51.9	1.4	mg/Kg dry	35.29	12.6	111	75-125			
Lead	19.6	0.53	mg/Kg dry	17.64	4.30	86.5	75-125			
Nickel	22.0	0.71	mg/Kg dry	17.64	6.78	86.5	75-125			
Sodium	501	180	mg/Kg dry	141.1	328	122	75-125			
Thallium	16.8	1.8	mg/Kg dry	17.64	ND	95.3	75-125			
Zinc	47.7	0.71	mg/Kg dry	35.29	17.1	86.6	75-125			
Matrix Spike Dup (B392133-MSD1)		**Source: 24K0481-07RE1**		Prepared: 11/13/24 Analyzed: 11/14/24						
Arsenic	16.1	3.5	mg/Kg dry	17.67	1.71	81.7	75-125	1.05	35	
Beryllium	17.2	0.18	mg/Kg dry	17.67	0.282	95.6	75-125	0.314	35	
Cadmium	16.3	0.35	mg/Kg dry	17.67	ND	92.2	75-125	2.46	35	
Chromium	26.1	0.71	mg/Kg dry	17.67	9.24	95.6	75-125	3.52	35	
Copper	49.6	1.4	mg/Kg dry	35.33	12.6	105	75-125	4.39	35	
Lead	19.0	0.53	mg/Kg dry	17.67	4.30	83.2	75-125	2.91	35	
Nickel	21.3	0.71	mg/Kg dry	17.67	6.78	82.1	75-125	3.51	35	
Sodium	477	180	mg/Kg dry	141.3	328	105	75-125	4.84	35	
Thallium	17.2	1.8	mg/Kg dry	17.67	ND	97.4	75-125	2.29	35	
Zinc	44.4	0.71	mg/Kg dry	35.33	17.1	77.3	75-125	7.06	35	
Post Spike (B392133-PS1)		**Source: 24K0481-07RE1**		Prepared: 11/13/24 Analyzed: 11/14/24						
Antimony	1.75		mg/L	2.000	0.0146	86.7	75-125			
Arsenic	1.66		mg/L	2.000	0.0477	80.4	75-125			
Beryllium	1.89		mg/L	2.000	0.00787	93.9	75-125			
Cadmium	1.76		mg/L	2.000	0.00181	88.0	75-125			
Chromium	2.09		mg/L	2.000	0.258	91.8	75-125			
Copper	4.40		mg/L	4.000	0.351	101	75-125			
Lead	1.76		mg/L	2.000	0.120	82.1	75-125			
Nickel	1.85		mg/L	2.000	0.189	82.8	75-125			
Sodium	24.7		mg/L	16.00	9.17	97.1	75-125			
Thallium	1.84		mg/L	2.000	-0.00111	91.9	75-125			
Zinc	3.71		mg/L	4.000	0.479	80.9	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392133 - SW-846 3050B										
Dilution Check (B392133-SRL1)	**Source: 24K0481-07RE1**			Prepared: 11/13/24 Analyzed: 11/14/24						
Antimony	ND	8.9	mg/Kg dry		ND				20	
Arsenic	ND	18	mg/Kg dry		ND				20	
Cadmium	ND	1.8	mg/Kg dry		ND				20	
Chromium	10.5	3.6	mg/Kg dry		9.24			12.9	20	
Copper	12.9	7.2	mg/Kg dry		12.6			2.84	20	
Nickel	8.17	3.6	mg/Kg dry		6.78			18.6	20	
Sodium	335	890	mg/Kg dry		328			2.15	20	J
Thallium	ND	8.9	mg/Kg dry		ND				20	
Zinc	20.5	3.6	mg/Kg dry		17.1			18.0	20	
Batch B392686 - SW-846 7470A Prep										
Blank (B392686-BLK1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	ND	0.00020	mg/L							
LCS (B392686-BS1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	0.00378	0.00020	mg/L	0.004020		94.1	80-120			
LCS Dup (B392686-BSD1)				Prepared: 11/20/24 Analyzed: 11/21/24						
Mercury	0.00362	0.00020	mg/L	0.004020		90.0	80-120	4.40	20	
Batch B393099 - SW-846 7471										
Blank (B393099-BLK1)				Prepared & Analyzed: 11/25/24						
Mercury	ND	0.024	mg/Kg wet							
LCS (B393099-BS1)				Prepared & Analyzed: 11/25/24						
Mercury	22.6	1.8	mg/Kg wet	22.80		99.1	70.6-129.4			
LCS Dup (B393099-BSD1)				Prepared & Analyzed: 11/25/24						
Mercury	24.5	1.7	mg/Kg wet	22.80		107	70.6-129.4	8.11	20	
Batch B393587 - SW-846 7471										
Blank (B393587-BLK1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	ND	0.025	mg/Kg wet							
LCS (B393587-BS1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	21.4	1.6	mg/Kg wet	22.80		94.0	70.6-129.4			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393587 - SW-846 7471										
LCS Dup (B393587-BSD1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	21.1	1.6	mg/Kg wet	22.80		92.7	70.6-129.4	1.42	20	
Matrix Spike (B393587-MS1)		**Source: 24K0481-07**		Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	0.337	0.025	mg/Kg dry	0.3374	ND	99.8	80-120			
Matrix Spike Dup (B393587-MSD1)		**Source: 24K0481-07**		Prepared: 12/03/24 Analyzed: 12/04/24						
Mercury	0.361	0.027	mg/Kg dry	0.3655	ND	98.6	80-120	6.85	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392045 - % Solids										
Duplicate (B392045-DUP4)	**Source: 24K0481-02**			Prepared & Analyzed: 11/12/24						
% Solids	95.9		% Wt		96.1			0.158	10	
Batch B392375 - % Solids										
Duplicate (B392375-DUP1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/15/24						
% Solids	91.1		% Wt		90.8			0.359	10	
Batch B392420 - SW-846 9010C										
Blank (B392420-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B392420-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	130	4.9	mg/Kg wet	85.17		151	30.6-170			
LCS Dup (B392420-BSD1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	120	5.0	mg/Kg wet	85.42		140	30.6-170	7.33	30	
Batch B392421 - SW-846 9010C										
Blank (B392421-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	ND	0.010	mg/L							
LCS (B392421-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	0.32	0.010	mg/L	0.2999		105	80-120			
LCS Dup (B392421-BSD1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	0.30	0.010	mg/L	0.2999		100	80-120	4.84	20	
Batch B392450 - SW-846 9010C										
Blank (B392450-BLK1)				Prepared & Analyzed: 11/18/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B392450-BS1)				Prepared & Analyzed: 11/18/24						
Cyanide	120	5.0	mg/Kg wet	85.99		142	30.6-170			
LCS Dup (B392450-BSD1)				Prepared & Analyzed: 11/18/24						
Cyanide	130	5.0	mg/Kg wet	85.99		146	30.6-170	2.85	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392450 - SW-846 9010C										
Matrix Spike (B392450-MS1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/18/24						
Cyanide	18	0.54	mg/Kg dry	16.28	ND	109	75-125			
Matrix Spike Dup (B392450-MSD1)	**Source: 24K0481-07**			Prepared & Analyzed: 11/18/24						
Cyanide	16	0.53	mg/Kg dry	16.02	ND	102	75-125	8.36	30	

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BREAKDOWN REPORT

Lab Sample ID:	S114108-PEM1	Analyzed:	11/13/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.52
Endrin [1]	13.75

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.21
Endrin [2]	13.26

BREAKDOWN REPORT

Lab Sample ID:	S114334-PEM1	Analyzed:	11/20/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.22
Endrin [1]	1.87

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.03
Endrin [2]	2.32

BREAKDOWN REPORT

Lab Sample ID:	S114334-PEM2	Analyzed:	11/20/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.44
Endrin [1]	6.48

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BREAKDOWN REPORT

Lab Sample ID:	**S114334-PEM2**	**Analyzed:**	**11/20/2024**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.26
Endrin [2]	6.99

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391978-BS1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.69	
	2	0.000	0.000	0.000	0.67	2.9
Aroclor-1260	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.80	2.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391978-BSD1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.75	
	2	0.000	0.000	0.000	0.72	4.1
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.82	3.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391979-BS1 Date(s) Analyzed: 11/13/2024 11/13/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.399	5.371	5.431	1.8	
	2	5.352	5.323	5.383	1.9	5.4
4,4'-DDE	1	4.912	4.884	4.944	1.7	
	2	4.887	4.857	4.917	1.8	5.7
4,4'-DDT	1	5.629	5.601	5.661	1.6	
	2	5.607	5.577	5.637	1.7	6.1
Aldrin	1	4.149	4.120	4.180	1.4	
	2	4.022	3.991	4.051	1.5	6.9
alpha-BHC	1	3.266	3.237	3.297	1.6	
	2	3.153	3.122	3.182	1.6	0.0
alpha-Chlordane	1	4.848	4.820	4.880	1.6	
	2	4.742	4.712	4.772	1.7	6.1
beta-BHC	1	3.590	3.561	3.621	1.5	
	2	3.497	3.466	3.526	1.7	12.5
delta-BHC	1	3.732	3.704	3.764	1.4	
	2	3.723	3.692	3.752	1.4	0.0
Dieldrin	1	5.155	5.127	5.187	1.7	
	2	5.003	4.973	5.033	1.8	5.7
Endosulfan I	1	4.959	4.931	4.991	1.6	
	2	4.784	4.753	4.813	1.8	11.8
Endosulfan II	1	5.527	5.499	5.559	1.7	
	2	5.418	5.388	5.448	1.8	5.7
Endosulfan Sulfate	1	6.196	6.168	6.228	1.5	
	2	5.918	5.888	5.948	1.7	12.5
Endrin	1	5.345	5.317	5.377	1.7	
	2	5.245	5.215	5.275	1.7	0.0
Endrin Aldehyde	1	5.872	5.843	5.903	1.4	
	2	5.694	5.664	5.724	1.5	6.9
Endrin Ketone	1	6.386	6.358	6.418	1.7	
	2	6.292	6.262	6.322	1.7	0.0
gamma-BHC (Lindane)	1	3.522	3.492	3.552	1.5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391979-BS1 Date(s) Analyzed: 11/13/2024 11/13/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.429	3.398	3.458	1.6	6.5
gamma-Chlordane	1	4.740	4.712	4.772	1.6	
	2	4.625	4.595	4.655	1.7	6.1
Heptachlor	1	3.906	3.877	3.937	1.5	
	2	3.771	3.740	3.800	1.6	6.5
Heptachlor Epoxide	1	4.640	4.611	4.671	1.6	
	2	4.475	4.444	4.504	1.7	6.1
Methoxychlor	1	6.016	5.989	6.049	1.5	
	2	6.145	6.116	6.176	1.7	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391979-BSD1 Date(s) Analyzed: 11/13/2024 11/13/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.399	5.371	5.431	1.7	
	2	5.352	5.323	5.383	1.8	5.7
4,4'-DDE	1	4.913	4.884	4.944	1.6	
	2	4.887	4.857	4.917	1.7	6.1
4,4'-DDT	1	5.629	5.601	5.661	1.5	
	2	5.608	5.577	5.637	1.6	6.5
Aldrin	1	4.149	4.120	4.180	1.3	
	2	4.022	3.991	4.051	1.4	7.4
alpha-BHC	1	3.266	3.237	3.297	1.5	
	2	3.153	3.122	3.182	1.5	0.0
alpha-Chlordane	1	4.848	4.820	4.880	1.5	
	2	4.743	4.712	4.772	1.6	6.5
beta-BHC	1	3.590	3.561	3.621	1.4	
	2	3.497	3.466	3.526	1.5	6.9
delta-BHC	1	3.732	3.704	3.764	1.2	
	2	3.723	3.692	3.752	1.3	8.0
Dieldrin	1	5.155	5.127	5.187	1.2	
	2	5.003	4.973	5.033	1.3	8.0
Endosulfan I	1	4.960	4.931	4.991	1.5	
	2	4.784	4.753	4.813	1.7	12.5
Endosulfan II	1	5.526	5.499	5.559	1.5	
	2	5.419	5.388	5.448	1.7	6.1
Endosulfan Sulfate	1	6.195	6.168	6.228	1.4	
	2	5.918	5.888	5.948	1.6	13.3
Endrin	1	5.344	5.317	5.377	0.018	
	2	5.245	5.215	5.275	0.015	18.2
Endrin Aldehyde	1	5.871	5.843	5.903	1.3	
	2	5.695	5.664	5.724	1.4	7.4
Endrin Ketone	1	6.386	6.358	6.418	2.7	
	2	6.292	6.262	6.322	2.7	0.0
gamma-BHC (Lindane)	1	3.521	3.492	3.552	1.4	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391979-BSD1 Date(s) Analyzed: 11/13/2024 11/13/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.429	3.398	3.458	1.5	6.9
gamma-Chlordane	1	4.740	4.712	4.772	1.5	
	2	4.626	4.595	4.655	1.6	6.5
Heptachlor	1	3.905	3.877	3.937	1.3	
	2	3.771	3.740	3.800	1.4	7.4
Heptachlor Epoxide	1	4.639	4.611	4.671	1.5	
	2	4.474	4.444	4.504	1.6	6.5
Methoxychlor	1	6.016	5.989	6.049	1.4	
	2	6.145	6.116	6.176	1.5	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392152-BS1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.393	5.364	5.424	0.082	
	2	5.350	5.320	5.380	0.084	2.4
4,4'-DDE	1	4.907	4.878	4.938	0.080	
	2	4.885	4.855	4.915	0.084	4.9
4,4'-DDT	1	5.624	5.594	5.654	0.082	
	2	5.605	5.575	5.635	0.084	2.4
Aldrin	1	4.143	4.113	4.173	0.074	
	2	4.019	3.989	4.049	0.078	5.3
alpha-BHC	1	3.261	3.231	3.291	0.075	
	2	3.151	3.120	3.180	0.078	3.9
alpha-Chlordane	1	4.843	4.813	4.873	0.074	
	2	4.740	4.709	4.769	0.080	7.8
beta-BHC	1	3.585	3.554	3.614	0.070	
	2	3.494	3.464	3.524	0.074	5.6
delta-BHC	1	3.727	3.697	3.757	0.073	
	2	3.721	3.690	3.750	0.074	1.4
Dieldrin	1	5.150	5.120	5.180	0.078	
	2	5.001	4.970	5.030	0.083	6.2
Endosulfan I	1	4.954	4.924	4.984	0.074	
	2	4.781	4.751	4.811	0.081	9.0
Endosulfan II	1	5.521	5.491	5.551	0.075	
	2	5.415	5.385	5.445	0.080	6.5
Endosulfan Sulfate	1	6.191	6.161	6.221	0.068	
	2	5.916	5.886	5.946	0.076	11.1
Endrin	1	5.339	5.309	5.369	0.085	
	2	5.243	5.212	5.272	0.084	1.2
Endrin Aldehyde	1	5.865	5.835	5.895	0.063	
	2	5.691	5.662	5.722	0.070	10.5
Endrin Ketone	1	6.382	6.351	6.411	0.073	
	2	6.290	6.260	6.320	0.072	1.4
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.071	

Pace Analytical Services, LLC - East Longmeadow, Ma

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392152-BS1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.426	3.396	3.456	0.075	5.5
gamma-Chlordane	1	4.734	4.705	4.765	0.081	
	2	4.623	4.593	4.653	0.079	2.5
Heptachlor	1	3.901	3.870	3.930	0.078	
	2	3.769	3.738	3.798	0.081	3.8
Heptachlor Epoxide	1	4.634	4.604	4.664	0.076	
	2	4.472	4.441	4.501	0.079	3.9
Methoxychlor	1	6.013	5.983	6.043	0.082	
	2	6.143	6.114	6.174	0.084	2.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392152-BSD1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.393	5.364	5.424	0.086	
	2	5.351	5.320	5.380	0.089	3.4
4,4'-DDE	1	4.907	4.878	4.938	0.085	
	2	4.885	4.855	4.915	0.089	4.6
4,4'-DDT	1	5.624	5.594	5.654	0.086	
	2	5.605	5.575	5.635	0.086	0.0
Aldrin	1	4.144	4.113	4.173	0.077	
	2	4.019	3.989	4.049	0.083	6.2
alpha-BHC	1	3.262	3.231	3.291	0.080	
	2	3.151	3.120	3.180	0.082	2.5
alpha-Chlordane	1	4.843	4.813	4.873	0.079	
	2	4.740	4.709	4.769	0.085	7.3
beta-BHC	1	3.585	3.554	3.614	0.072	
	2	3.494	3.464	3.524	0.077	6.7
delta-BHC	1	3.728	3.697	3.757	0.078	
	2	3.721	3.690	3.750	0.080	2.5
Dieldrin	1	5.150	5.120	5.180	0.082	
	2	5.001	4.970	5.030	0.088	7.1
Endosulfan I	1	4.954	4.924	4.984	0.079	
	2	4.782	4.751	4.811	0.086	8.5
Endosulfan II	1	5.521	5.491	5.551	0.079	
	2	5.415	5.385	5.445	0.085	7.3
Endosulfan Sulfate	1	6.191	6.161	6.221	0.073	
	2	5.916	5.886	5.946	0.082	11.6
Endrin	1	5.339	5.309	5.369	0.089	
	2	5.243	5.212	5.272	0.088	1.1
Endrin Aldehyde	1	5.865	5.835	5.895	0.063	
	2	5.691	5.662	5.722	0.072	13.3
Endrin Ketone	1	6.381	6.351	6.411	0.077	
	2	6.290	6.260	6.320	0.076	1.3
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.075	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392152-BSD1 Date(s) Analyzed: 11/20/2024 11/20/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.426	3.396	3.456	0.079	5.2
gamma-Chlordane	1	4.734	4.705	4.765	0.083	
	2	4.624	4.593	4.653	0.084	1.2
Heptachlor	1	3.900	3.870	3.930	0.082	
	2	3.768	3.738	3.798	0.086	4.8
Heptachlor Epoxide	1	4.634	4.604	4.664	0.080	
	2	4.472	4.441	4.501	0.084	4.9
Methoxychlor	1	6.012	5.983	6.043	0.085	
	2	6.143	6.114	6.174	0.089	4.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392152-MS1 Date(s) Analyzed: 11/20/2024 11/21/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.393	5.364	5.424	0.091	
	2	5.350	5.320	5.380	0.096	5.4
4,4'-DDE	1	4.907	4.878	4.938	0.090	
	2	4.885	4.855	4.915	0.094	4.4
4,4'-DDT	1	5.624	5.594	5.654	0.088	
	2	5.605	5.575	5.635	0.090	2.3
Aldrin	1	4.143	4.113	4.173	0.084	
	2	4.020	3.989	4.049	0.091	8.0
alpha-BHC	1	3.261	3.231	3.291	0.088	
	2	3.151	3.120	3.180	0.092	4.4
beta-BHC	1	3.584	3.554	3.614	0.079	
	2	3.494	3.464	3.524	0.085	7.3
delta-BHC	1	3.727	3.697	3.757	0.076	
	2	3.721	3.690	3.750	0.078	2.6
Dieldrin	1	5.149	5.120	5.180	0.087	
	2	5.001	4.970	5.030	0.093	6.7
Endosulfan I	1	4.954	4.924	4.984	0.083	
	2	4.782	4.751	4.811	0.090	8.1
Endosulfan II	1	5.521	5.491	5.551	0.082	
	2	5.416	5.385	5.445	0.089	8.2
Endosulfan Sulfate	1	6.191	6.161	6.221	0.075	
	2	5.916	5.886	5.946	0.085	12.5
Endrin	1	5.339	5.309	5.369	0.093	
	2	5.243	5.212	5.272	0.093	0.0
Endrin Aldehyde	1	5.863	5.833	5.893	0.085	
	2	5.691	5.661	5.721	0.094	10.1
Endrin Ketone	1	6.381	6.351	6.411	0.082	
	2	6.290	6.260	6.320	0.082	0.0
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.082	
	2	3.426	3.396	3.456	0.087	5.9
Heptachlor	1	3.900	3.870	3.930	0.089	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392152-MS1 Date(s) Analyzed: 11/20/2024 11/21/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.769	3.738	3.798	0.093	4.4
Heptachlor Epoxide	1	4.634	4.604	4.664	0.085	
	2	4.472	4.441	4.501	0.089	4.6
Methoxychlor	1	6.012	5.983	6.043	0.088	
	2	6.143	6.114	6.174	0.093	5.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392152-MSD1 Date(s) Analyzed: 11/20/2024 11/21/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.394	5.364	5.424	0.074	
	2	5.350	5.320	5.380	0.082	10.3
4,4'-DDE	1	4.907	4.878	4.938	0.074	
	2	4.885	4.855	4.915	0.078	5.3
4,4'-DDT	1	5.623	5.594	5.654	0.068	
	2	5.604	5.575	5.635	0.070	2.9
Aldrin	1	4.143	4.113	4.173	0.068	
	2	4.019	3.989	4.049	0.073	7.1
alpha-BHC	1	3.261	3.231	3.291	0.060	
	2	3.151	3.120	3.180	0.063	4.9
beta-BHC	1	3.584	3.554	3.614	0.066	
	2	3.494	3.464	3.524	0.070	5.9
delta-BHC	1	3.727	3.697	3.757	0.039	
	2	3.720	3.690	3.750	0.040	2.5
Dieldrin	1	5.149	5.120	5.180	0.071	
	2	5.001	4.970	5.030	0.076	6.8
Endosulfan I	1	4.953	4.924	4.984	0.051	
	2	4.781	4.751	4.811	0.055	7.6
Endosulfan II	1	5.521	5.491	5.551	0.046	
	2	5.416	5.385	5.445	0.050	8.3
Endosulfan Sulfate	1	6.191	6.161	6.221	0.058	
	2	5.915	5.886	5.946	0.065	11.4
Endrin	1	5.339	5.309	5.369	0.077	
	2	5.243	5.212	5.272	0.077	0.0
Endrin Aldehyde	1	5.863	5.833	5.893	0.061	
	2	5.691	5.661	5.721	0.067	9.4
Endrin Ketone	1	6.381	6.351	6.411	0.065	
	2	6.290	6.260	6.320	0.066	1.5
gamma-BHC (Lindane)	1	3.516	3.486	3.546	0.058	
	2	3.426	3.396	3.456	0.061	5.0
Heptachlor	1	3.900	3.870	3.930	0.069	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392152-MSD1 Date(s) Analyzed: 11/20/2024 11/21/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.768	3.738	3.798	0.073	5.6
Heptachlor Epoxide	1	4.634	4.604	4.664	0.070	
	2	4.472	4.441	4.501	0.073	4.2
Methoxychlor	1	6.012	5.983	6.043	0.067	
	2	6.143	6.114	6.174	0.072	7.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B392153-BS1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B392153-BSD1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.15	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B392153-MS1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.15	6.9
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.17	19.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B392153-MSD1 Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.19	17.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-17C	Extracted internal standard is outside of control limits. Analyte is a known difficult compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-29	Extracted Internal Standard is outside of control limits.
SM-05	Insufficient sample for reanalysis.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT

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Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC

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Analyte	Certifications
SW-846 6010D in Soil	
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA

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SW-846 8081B in Soil	
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC

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Analyte	Certifications
SW-846 8081B in Water	
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA

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Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA

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Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

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Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24110481

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: E&E
Consultant Address: 40 La Riviere Dr., Buffalo, NY
Consultant Phone: (732) 979-7572
Callout Project Name: Court & Lyquer
Project Location: Carroll Gardens/Brooklyn, NY
Callout Number: C100913
Site/Spill Number: 224414
Project Manager: G. Mayer
Pace Analytical Quote Name/Number:
Invoice Recipient: G. Mayer
Sampled By: CP

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Chuck.Porrera@wsp.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	CLMW-04-Z14-15	11/5	1300		X	S	
2	CLMW-04-Z22-23		1320		X		
3	CLMW-04-Z33-34		1410		X		
4	CLMW-04-Z45-46		1440		X		
5	*CLMW-04-Z45-46D		1450		X		
6	CLMW-01-Z12-13	11/6	1410		X		
7	**CLMW-01-Z37-38		1500		X		
8	FB-241106		1600			W	
9	TB-241106					W	

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

# of Containers	3	1	1	1	1	1	1	1			
[2] Preservation Code											
[3] Container Code											

8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Mercury 7471B	Cyanide 9012B
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X							

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Field DUP for CLMW-04-Z45-46
** Plus MS/MSD

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	11-6-24 1700
Received by: (signature) Pace	11/6/24 1700
Relinquished by: (signature) Pace	11/6 1857
Received by: (signature) Anthony Green	NOV 06 2024 2200
Relinquished by: (signature) Anthony Green	11/7/24 0015
Received by: (signature)	11/7/24 0015 0350

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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6120 11/6/24

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client WSP

Project Court & Liquor

MCP/RCP Required MA

Deliverable Package Requirement MA

Location Carroll Gardens Brooklyn, NY

PWSID# (When Applicable) MA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time Ryan 11/7/24 7:19

Back-Sheet By / Date / Time LA 11/8/24 11:16

Temperature Method Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp ✓ < 6° C Actual Temperature 3.0

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☒ (N/A)
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Triplank on COC but none received.

No volume for 8151 received.

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars	1	1					2	2												
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear										2	2											
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL									2	2											
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL										1											
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric											1											
NaOH											1											
Ammonium Acetate											1											
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl											3	3										
MeOH			1	1					2	2												
D.I. Water																						
BiSulfate			2						4	4												
Col/Bact		Other / Fill in																				
Other			2						4	1												

ANALYTICAL REPORT

Lab Number:	L2465751
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24K0481
Project Number:	24K0481
Report Date:	11/20/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2465751-01	CLMW-04-Z14-15	SOIL	Not Specified	11/05/24 13:00	11/08/24
L2465751-02	CLMW-04-Z22-23	SOIL	Not Specified	11/05/24 13:20	11/08/24
L2465751-03	CLMW-04-Z33-34	SOIL	Not Specified	11/05/24 14:10	11/08/24
L2465751-04	CLMW-04-Z45-46	SOIL	Not Specified	11/05/24 14:40	11/08/24
L2465751-05	CLMW-04-Z45-46Q	SOIL	Not Specified	11/05/24 14:50	11/08/24
L2465751-06	CLMW-04-Z12-13	SOIL	Not Specified	11/06/24 14:10	11/08/24
L2465751-07	CLMW-01-Z37-38	SOIL	Not Specified	11/06/24 15:00	11/08/24
L2465751-08	FB-241106	WATER	Not Specified	11/06/24 16:00	11/08/24

Project Name:	24K0481	**Lab Number:**	L2465751
Project Number:	24K0481	**Report Date:**	11/20/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 24K0481 **Lab Number:** L2465751
Project Number: 24K0481 **Report Date:** 11/20/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/20/24

ORGANICS

PESTICIDES

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-01
Client ID: CLMW-04-Z14-15
Sample Location: Not Specified

Date Collected: 11/05/24 13:00
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 18:05
Analyst: EJL
Percent Solids: 87%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3790	1190	1	A
MCPA	ND		ug/kg	3790	1070	1	A
Dalapon	ND		ug/kg	37.9	12.4	1	A
Dicamba	ND		ug/kg	37.9	6.37	1	A
Dichloroprop	ND		ug/kg	37.9	10.9	1	A
2,4-D	ND		ug/kg	190	11.9	1	A
2,4-DB	ND		ug/kg	190	9.74	1	A
2,4,5-T	ND		ug/kg	190	5.88	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	74		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-02
Client ID: CLMW-04-Z22-23
Sample Location: Not Specified

Date Collected: 11/05/24 13:20
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 18:23
Analyst: EJL
Percent Solids: 96%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3450	1090	1	A
MCPA	ND		ug/kg	3450	977.	1	A
Dalapon	ND		ug/kg	34.5	11.3	1	A
Dicamba	ND		ug/kg	34.5	5.80	1	A
Dichloroprop	ND		ug/kg	34.5	9.90	1	A
2,4-D	ND		ug/kg	172	10.9	1	A
2,4-DB	ND		ug/kg	172	8.87	1	A
2,4,5-T	ND		ug/kg	172	5.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	75		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-03
Client ID: CLMW-04-Z33-34
Sample Location: Not Specified

Date Collected: 11/05/24 14:10
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 18:42
Analyst: EJL
Percent Solids: 88%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3770	1190	1	A
MCPA	ND		ug/kg	3770	1070	1	A
Dalapon	ND		ug/kg	37.7	12.3	1	A
Dicamba	ND		ug/kg	37.7	6.34	1	A
Dichloroprop	ND		ug/kg	37.7	10.8	1	A
2,4-D	ND		ug/kg	188	11.9	1	A
2,4-DB	ND		ug/kg	188	9.69	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	71		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-04
Client ID: CLMW-04-Z45-46
Sample Location: Not Specified

Date Collected: 11/05/24 14:40
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 19:00
Analyst: EJL
Percent Solids: 91%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3610	1140	1	A
MCPA	ND		ug/kg	3610	1020	1	A
Dalapon	ND		ug/kg	36.1	11.8	1	A
Dicamba	ND		ug/kg	36.1	6.06	1	A
Dichloroprop	ND		ug/kg	36.1	10.4	1	A
2,4-D	ND		ug/kg	180	11.4	1	A
2,4-DB	ND		ug/kg	180	9.28	1	A
2,4,5-T	ND		ug/kg	180	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	74		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-05
Client ID: CLMW-04-Z45-46Q
Sample Location: Not Specified

Date Collected: 11/05/24 14:50
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 19:19
Analyst: EJL
Percent Solids: 86%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3850	1210	1	A
MCPA	ND		ug/kg	3850	1090	1	A
Dalapon	ND		ug/kg	38.5	12.6	1	A
Dicamba	ND		ug/kg	38.5	6.48	1	A
Dichloroprop	ND		ug/kg	38.5	11.1	1	A
2,4-D	ND		ug/kg	193	12.1	1	A
2,4-DB	ND		ug/kg	193	9.91	1	A
2,4,5-T	ND		ug/kg	193	5.97	1	A
2,4,5-TP (Silvex)	ND		ug/kg	193	5.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	79		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-06
Client ID: CLMW-04-Z12-13
Sample Location: Not Specified

Date Collected: 11/06/24 14:10
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 19:37
Analyst: EJL
Percent Solids: 88%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3710	1170	1	A
MCPA	ND		ug/kg	3710	1050	1	A
Dalapon	ND		ug/kg	37.1	12.1	1	A
Dicamba	ND		ug/kg	37.1	6.23	1	A
Dichloroprop	ND		ug/kg	37.1	10.6	1	A
2,4-D	ND		ug/kg	185	11.7	1	A
2,4-DB	ND		ug/kg	185	9.53	1	A
2,4,5-T	ND		ug/kg	185	5.75	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	72		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-07
Client ID: CLMW-01-Z37-38
Sample Location: Not Specified

Date Collected: 11/06/24 15:00
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/16/24 20:14
Analyst: EJL
Percent Solids: 90%
Methylation Date: 11/15/24 18:03

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3680	1160	1	A
MCPA	ND		ug/kg	3680	1040	1	A
Dalapon	ND		ug/kg	36.8	12.0	1	A
Dicamba	ND		ug/kg	36.8	6.18	1	A
Dichloroprop	ND		ug/kg	36.8	10.6	1	A
2,4-D	ND		ug/kg	184	11.6	1	A
2,4-DB	ND		ug/kg	184	9.45	1	A
2,4,5-T	ND		ug/kg	184	5.70	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	72		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-08
Client ID: FB-241106
Sample Location: Not Specified

Date Collected: 11/06/24 16:00
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/14/24 03:46
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 07:55

Methylation Date: 11/13/24 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	85		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/14/24 02:51
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/12/24 07:55

Methylation Date: 11/13/24 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08 Batch: WG1996223-1						
MCPP	ND		ug/l	500	58.5	A
MCPA	ND		ug/l	500	63.2	A
Dalapon	ND		ug/l	20.0	0.810	A
Dicamba	ND		ug/l	1.00	0.243	A
Dichloroprop	ND		ug/l	10.0	0.564	A
2,4-D	ND		ug/l	10.0	0.498	A
2,4-DB	ND		ug/l	10.0	0.729	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A
Dinoseb	ND		ug/l	5.00	0.573	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	89		30-150	B

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/16/24 15:57
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 11/13/24 14:38

Methylation Date: 11/15/24 18:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1997041-1						
MCPP	ND		ug/kg	3300	1040	A
MCPA	ND		ug/kg	3300	936.	A
Dalapon	ND		ug/kg	33.0	10.8	A
Dicamba	ND		ug/kg	33.0	5.55	A
Dichloroprop	ND		ug/kg	33.0	9.49	A
2,4-D	ND		ug/kg	165	10.4	A
2,4-DB	ND		ug/kg	165	8.50	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	64		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0481
Project Number: 24K0481
Lab Number: L2465751
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1996223-2 WG1996223-3									
MCPP	82		102		30-150	22		25	A
MCPA	74		90		30-150	20		25	A
Dalapon	66		90		30-150	**31**	Q	25	A
Dicamba	81		99		30-150	20		25	A
Dichloroprop	80		100		30-150	22		25	A
2,4-D	81		100		30-150	21		25	A
2,4-DB	102		123		30-150	19		25	A
2,4,5-T	82		101		30-150	21		25	A
2,4,5-TP (Silvex)	80		98		30-150	20		25	A
Dinoseb	57		69		30-150	19		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	83		100		30-150	A
DCAA	93		113		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0481
Project Number: 24K0481
Lab Number: L2465751
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1997041-2 WG1997041-3									
MCPP	78		82		30-150	5		30	A
MCPA	62		63		30-150	2		30	A
Dalapon	45		47		30-150	4		30	A
Dicamba	66		71		30-150	7		30	A
Dichloroprop	68		78		30-150	14		30	A
2,4-D	68		76		30-150	11		30	A
2,4-DB	90		90		30-150	0		30	A
2,4,5-T	67		72		30-150	7		30	A
2,4,5-TP (Silvex)	66		70		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	65		70		30-150	A
DCAA	80		79		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 24K0481 ***Lab Number:*** L2465751

Project Number: 24K0481 ***Report Date:*** 11/20/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1997041-4 WG1997041-5 QC Sample: L2465751-07 Client ID: CLMW-01-Z37-38													
MCPP	ND	18200	26500P	146		25200	138		30-150	5		30	A
MCPA	ND	18200	12400	68		12900	71		30-150	4		30	A
Dalapon	ND	182	108	59		117	64		30-150	8		30	A
Dicamba	ND	182	136	75		142	78		30-150	4		30	A
Dichloroprop	ND	182	144	79		150	82		30-150	4		30	A
2,4-D	ND	182	141J	78		145J	79		30-150	3		30	A
2,4-DB	ND	182	174J	96		177J	97		30-150	2		30	A
2,4,5-T	ND	182	141J	78		146J	80		30-150	3		30	A
2,4,5-TP (Silvex)	ND	182	135J	74		141J	77		30-150	4		30	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
DCAA	72		74		30-150	A
DCAA	78		80		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-01
Client ID: CLMW-04-Z14-15
Sample Location: Not Specified

Date Collected: 11/05/24 13:00
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-02
Client ID: CLMW-04-Z22-23
Sample Location: Not Specified

Date Collected: 11/05/24 13:20
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-03 Date Collected: 11/05/24 14:10

Client ID: CLMW-04-Z33-34 Date Received: 11/08/24

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-04
Client ID: CLMW-04-Z45-46
Sample Location: Not Specified

Date Collected: 11/05/24 14:40
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-05 Date Collected: 11/05/24 14:50

Client ID: CLMW-04-Z45-46Q Date Received: 11/08/24

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-06
Client ID: CLMW-04-Z12-13
Sample Location: Not Specified

Date Collected: 11/06/24 14:10
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	11/19/24 18:51	121,2540G	SJB

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465751-07
Client ID: CLMW-01-Z37-38
Sample Location: Not Specified

Date Collected: 11/06/24 15:00
Date Received: 11/08/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	11/19/24 20:09	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1999592-1 QC Sample: L2466840-01 Client ID: DUP Sample						
Solids, Total	89.1	89.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1999607-1 QC Sample: L2465751-07 Client ID: CLMW-01-Z37-38						
Solids, Total	90.4	90.2	%	0		20

Project Name: 24K0481
Project Number: 24K0481

Lab Number: L2465751
Report Date: 11/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2465751-01A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-02A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-03A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-04A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-04B	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-05A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-06A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-07A	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-07A1	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),HERB-8151(14)
L2465751-08A	Amber 1L unpreserved	A	7	7	2.1	Y	Absent		HERB-8151(7)

*Values in parentheses indicate holding time in days

Project Name:	24K0481	**Lab Number:**	L2465751
Project Number:	24K0481	**Report Date:**	11/20/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0481	**Lab Number:**	L2465751
Project Number:	24K0481	**Report Date:**	11/20/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0481	**Lab Number:**	L2465751
Project Number:	24K0481	**Report Date:**	11/20/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24K0481 **Lab Number:** L2465751

Project Number: 24K0481 **Report Date:** 11/20/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SUBCONTRACT CHAIN OF CUSTODY

L2465751 22NOV24
CONTEST

Pace New England

24K0481

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATOR

Alpha Analytical Laboratory
8 Walkup Drive
Westborough, MA 01581
Phone :(508) 898-9220
Fax: (508) 898-9193

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24K0481-01	**CLMW-04-Z14-15**	**Soil**	**Sampled:**	**11/05/24 13:00**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/19/24 13:00	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0481-02	**CLMW-04-Z22-23**	**Soil**	**Sampled:**	**11/05/24 13:20**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/19/24 13:20	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0481-03	**CLMW-04-Z33-34**	**Soil**	**Sampled:**	**11/05/24 14:10**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/19/24 14:10	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0481-04	**CLMW-04-Z45-46**	**Soil**	**Sampled:**	**11/05/24 14:40**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/19/24 14:40	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0481-05	**CLMW-04-Z45-46**	**Soil**	**Sampled:**	**11/05/24 14:50**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/19/24 14:50	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					
Sample ID: 24K0481-06	**CLMW-01-Z12-13**	**Soil**	**Sampled:**	**11/06/24 14:10**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/20/24 14:10	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (G)					

Released By	Date	Received By	Date
CH	11-8-24 1615	[signature]	11-08-24 1615
[signature]	11-8-24 1800	[signature]	11/8/24 1800
Released By	Date	Received By	Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K0481

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24K0481-07	**CLMW-01-Z37-38**	**Soil**	**Sampled:**	**11/06/24 15:00**	**CAT B / MS MSD**
S-8151 DER TCL		12/09/24 14:00		11/20/24 15:00	Cat B Report to MDL
Containers Supplied:					
4 oz amber glass jar (F)	4 oz amber glass jar (M)	4 oz amber glass jar (N)			
Sample ID: 24K0481-08	**FB-241106**	**Water**	**Sampled:**	**11/06/24 16:00**	**CAT B**
S-8151 DER TCL		12/09/24 14:00		11/13/24 16:00	Cat B Report to MDL/ Limited Volume
Containers Supplied:					
1 L amber (A)					

Released By	Date	Received By	Date
	11-8-24 1615		
	11-8-24 1800		11/8 1800
Released By	Date	Received By	Date

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24110481

https://www.pacelabs.com/

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CHAIN OF CUSTODY RECORD (New York)

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Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: E&E
Consultant Address:	40 La Riviere Dr., Buffalo, NY
Consultant Phone:	(732) 979-7572
Callout Project Name:	Court & Leyer
Project Location:	Carroll Gardens/Brooklyn, NY
Callout Number:	C100913
Site/Spill Number:	224414
Project Manager:	G. Mayer
Pace Analytical Quote Name/Number:	
Invoice Recipient:	G. Mayer
Sampled By:	CP

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [ ] EXCEL [ ]
Other: Cat. B
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: Gregory.Mayer@wsp.com
Chuck.Porreca@wsp.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TCLP RCRA 8 Metals | TAL Total Metals	PFAS 1633 | PFAS 537 ID	Mercury 7471B	Cyanide 9010B
1	CLMW-04-Z14-15	11/5	1300		X	S		X	X	X	X	X	X	X	X
2	CLMW-04-Z22-23		1320		X			X	X	X	X	X	X	X	X
3	CLMW-04-Z33-34		1410		X			X	X	X	X	X	X	X	X
4	CLMW-04-Z45-46		1440		X			X	X	X	X	X	X	X	X
5 *	CLMW-04-Z45-46R		1450		X			X	X	X	X	X	X	X	X
6	CLMW-01-Z12-13	11/6	1410		X			X	X	X	X	X	X	X	X
7 **	CLMW-01-Z37-38		1500		X			X	X	X	X	X	X	X	X
8	FB-241106		1600			W									
9	TB-241106					W		X							

of Containers: 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Field DUP for CLMW-04-Z45-46
** Plus MS/MSD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	11-6-24 1700
Received by: (signature) Pace	11/6/24 1700
Relinquished by: (signature) Pace	11/6 1857
Received by: (signature) Anthony Green	NOV 06 2024 2200
Relinquished by: (signature) Anthony Green	11/7/24 0015
Received by: (signature)	11/7/24 0338

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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